

# The Modified Impact of CEO Characteristics on the Relationship Between Internal Audit Quality and Firms Performance in The Jordanian Corporations

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### Abstract

The study aim to identify the modified impact of the characteristics of the CEO on the relationship between the quality of internal auditing and the performance of the Jordanian corporations. The study population consisted of Jordanian corporations listed on Amman stock exchange. In order to achieve the objective of the study they adopted the descriptive analytical approach, by developing the questionnaire that was distributed. The study populations consist of all Jordanian corporations and 250 questioners was distributed in the study sample consisting of financial manager, internal auditor and heads of accounting department 206 questionnaire were received of which 183 were valid for analysis. Used the SPSS program in analysis the study tool in addition to some descriptive statistical methods (arithmetic, means and standard deviation).

The study reached a number of results , most important of which are there is statistically significance level the quality of internal audit and positively effect the performance of Jordanian corporations, in addition the characteristic of the CEO passively effect the reaction ship between the quality of internal auditing and the performance of the Jordanian corporations. The study also came out with a number of recommendations, the most important of which were the need to strength and improving the internal audit function in Jordanian companies, increasing its quality, and focusing more on the characteristics and attributes of the CEO. As well as the need for companies to keep abreast of developments and techniques related to internal auditing and use them in internal audit operations in Jordanian corporations.

Keywords: internal audit quality, CEO characteristics, corporate performance, Jordanian corporations



## Introduction

Corporate performance is a key metric for investors, government, and regulators. By evaluating the performance of the company, investors decide to invest in the company or keep their investment, so companies use some characteristics such as the quality of internal audits to reduce the problems of their agency, and thus improve their performance. During the credit crunch, the lack of audit quality was one of the main causes of many corporate scandals around the world, and to improve company performance. There are some indicators such as the quality of internal audit. Recently, researchers have examined the direct effects of companies and the characteristics of internal audit quality and company performance. In line with agency theory, which is a contract under which a person (agent) is appointed by another person or number of persons to perform some service on their behalf? Conflicts may arise when the agent and principal have different and incompatible interests. The internal audit function can address this issue when it is independent and has the support of senior management. Previous studies found that audit quality reduces agency costs and enhances company performance, and is also consistent with the Signaling Theory, which indicates that strong and good corporate governance requires high audit quality. On the other hand, one of the key factors to becoming a reliable and trustworthy company in a select group must have reliable financial statements and efficient reporting processes. It is not enough to hire a competent management team for companies to gain the confidence of their shareholders.

The quality of internal audit plays a role in helping companies to issue reliable financial statements, which leads to better performance in companies listed in various stock markets.

Audit quality is vital for every organization to achieve effective resource management and lead to improved performance as a major implementation strategy of the accounting system, and helps management verify the functioning of each department within the company as a whole. The quality of the audit worldwide ensures that the quality of the financial statements or reports of companies listed on the stock exchanges of any country is achieved. The quality of internal audit reflects the quality of financial reports or information held by institutions to create confidence among stakeholders, and also reflects the efficiency and credibility of the audit department in the institution within the institution's practices as part of the corporate governance structure in the company's management and practices.

The impact of internal audit quality on a company's performance has an impact on the agency's relationship with the company, and this has not been extensively studied by most researchers in emerging economies, although audit services have been well recognized as one of the mechanisms used to mitigate the agency problem that exists mostly between corporate management and shareholders.

The audit service is just another component of the corporate governance structure and an important aspect of the regulatory system to protect the interests of shareholders and serve other stakeholders in public companies around the world. Thus, the internal audit has become an important role in preserving the assets of companies and maximizing the wealth of owners through its role in developing work activities in organized



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Nowadays, competition is increasing, thus there is greater need to understand complex customer demand. Moreover, shareholders and investors demand the highest profit margins. Therefore, the importance of having a well-organized board of directors is increasing day by day. Many researches have been done on why and how the characteristics of a CEO are important to a company. The CEO is one of the major players in the corporate sector. By sitting at the top of corporate management teams, CEOs can direct companies to actively pursue opportunities and control corporate structures and strategies). Specifically, CEOs make important and strategic decisions that can affect the performance of their companies. Claimed that the most important determinant of a company's survival and success depends on the performance and quality of the company's top managers.

It is clear that the characteristics of the CEO have been included among many factors that affect companies, as reported in several studies. The personality of the CEO is likely to have an important influence on the success of the company). The focus of this thesis is on the characteristics of the CEO since the position of CEO is very important in the management hierarchy. Therefore, this thesis sheds light on the characteristics of CEOs and their impact on the relationship between the quality of internal auditing and corporate performance. Thus, it is important that this message assist researchers in understanding the roles of CEOs in companies

# The problem of the study:

Previous research indicates that internal audits can have a positive impact on corporate governance and performance). Despite the widespread acceptance of the benefits of internal auditing, there is relatively little documented empirical research on the role of internal audit quality o corporate performance. Moreover, the nature of the context of each country may affect the quality of application of the International Professional Standards for Internal Auditing. In this study, Jordan is a developing country with a small economy. Most Jordanian companies are mainly owned by families who tend to have a few large shareholders who control their executive management, in addition to many small shareholders. In general, the nature of Jordanian companies and their system of governance makes the application of the internal audit function different from those in more developed countries which are characterized by companies that tend to be significantly larger and have more sophisticated internal audit and corporate governance. Hence the need to study the impact of CEO characteristics on the relationship between internal audit quality and corporate performance, in addition, the nature of the economic market in Jordan and the markets of developing countries requires conducting more studies on the quality of auditing and what is related to it.

From here, the problem of this study appears in the importance directed to the characteristics of the CEO and the lack of interest in some literature in this importance, as the CEO is an essential component of companies of all kinds and areas of specialization, and contributes significantly to improving the ability of organizations to compete in the presence of a highly competitive environment.



# **Study Questions:**

This study came to clarify the modified effect of the CEO's characteristics on the relationship between the quality of internal auditing and the performance of Jordanian corporations by answering the following question:

- 1. Is there an impact of the quality of internal auditing on the financial performance of Jordanian corporations?
- 2. Is there an impact of the quality of internal auditing on the non-financial performance of Jordanian corporations?
- 3. Is there an impact of the quality of internal auditing on the financial performance of Jordanian corporations in light of the characteristics of the CEO?
- 4. Is there an impact of the quality of internal auditing on the non-financial performance of Jordanian corporations in light of the characteristics of the CEO?

### **Objectives of the study:**

In light of the study problem presented in the previous paragraph, the main objective of the research is to identify the modified effect of the characteristics of the CEO on the relationship between the quality of internal auditing and the performance of Jordanian corporations?

This is done through the following:

- 1) A statement of the impact of the quality of internal auditing on the financial performance of Jordanian corporations.
- 2) A statement of the impact of the quality of internal auditing on the non-financial performance of Jordanian corporations.
- 3) Statement of the impact of internal audit quality on the financial performance of Jordanian corporations in light of the characteristics of the CEO.
- 4) Statement of the impact of internal audit quality on the non-financial performance of Jordanian corporations in light of the characteristics of the CEO.

#### **Importance of the study**

The theoretical importance of this study highlights its support for theoretical studies and research in the field of internal audit quality and its impact on corporate performance, in addition to the impact of the CEO's characteristics on the relationship between internal audit quality and corporate performance. A new addition to the Arabic library, in addition to all researchers who want to continue their research in this field in the future

#### **Research Hypotheses:**

In order to answer the study problem and achieve its objectives, the following nihilistic hypotheses were formulated:

The first main hypothesis:

Ho1: There is no impact of the quality of internal auditing on the financial performance of Jordanian corporations.



The second main hypothesis:

Ho2: There is no impact on the quality of internal auditing on the non-financial performance of Jordanian corporations.

The third main hypothesis:

Ho3: There is no impact on the quality of internal auditing on the financial performance of Jordanian corporations in light of the characteristics of the CEO.

The Fourth main hypothesis:

Ho4: There is no impact of the quality of internal auditing on the non-financial performance of Jordanian corporations in light of the characteristics of the CEO.

# **Previous studies**

Khalil and Maghrabi study (2016) entitled: "The effect of patterns of ownership structures and characteristics of the board of directors on the quality of the online financial report on companies listed on the Egyptian Stock Exchange.

This study aimed to demonstrate the impact of the patterns of ownership structures and the characteristics of the board of directors on the quality of the financial report via the Internet, after the decision of the Board of Directors of the Egyptian Financial Supervisory Authority No. 11 dated 1/29/2014 regarding the rules for listing and delisting securities in the Egyptian Stock Exchange Article No. (6) Item) e) which relates to the obligation of the company requesting registration to establish an electronic website on the international information network as soon as any of the securities are listed on the stock exchange and before trading begins on them. To measure the quality of the online financial report, it consists of (81) items divided into two groups: content and presentation. In choosing the research hypotheses, the researchers relied on the use of the Pearson correlation coefficient and the progressive multiple linear regression models to measure the relationship between the quality indicator of the online financial report and the characteristics of the board of directors and ownership structures. 2012.

Among the findings of the study is that the board of directors plays a key role as a financial audit mechanism, and that one of the most important motives for companies to publish the financial report via the Internet is the personal cost and time taken to distribute information, and that the increase in levels of administrative ownership has led to increase the convergence of interests and the reduction of information asymmetry may lead to increased attention to the quality of financial reports

# Hayrat study (2016) entitled: "The impact of the characteristics of the board of directors on the quality of auditing in industrial corporations (applied study)

This study aimed to show the impact of the characteristics of the board of directors on the quality of auditing in the Jordanian industrial corporations. The announced annual meetings, while the quality of the audit provided to the industrial companies listed on the Amman Stock Exchange was identified by measuring it with the size of the audit office, the work retention period, the value of the audit fees, and linking with international offices.



The study community is represented by the corporations that belong to the industrial sector listed on the Amman Stock Exchange for the year 2014, abo industrial companies. It has a link with international offices and therefore it is expected that the quality of the audit will increase because of that link

# Al-Shahed and Al-Kurdi study (2018) entitled: "The impact of the characteristics of the board of directors and audit committees on the quality of profits, evidence from Jordanian commercial banks."

This study aimed to explore the relationship between the characteristics of the board of directors and the audit committee, and income smoothing as a measure of profit quality in Jordanian commercial banks. The study sample consisted of all 31 Jordanian commercial banks listed on the Amman Stock Exchange with a number of 19 views for the period from 2007 to 2013. The results of the study showed a statistical relationship between the other variables (the class of ownership, the size of the audit committee, the number of audit meetings, the number of audit committee meetings, Board of Directors), and the quality of profits. The study recommended searching for other characteristics of audit committees, such as the independence of audit committees, experience, and scientific competence, and nothing may have an impact on the quality of profit.

# Mubaraki and Bosna study (2018), entitled: "The impact of the board's characteristics on the financial performance of the institution (case study: a sample of French institutions listed in the CaC40 index).

This study aimed to test the impact of the characteristics of the board of directors on the financial performance of the French companies listed on the stock exchange within the index (CaC40), during the period from 2015 to 2017. Financial indicators using two important indicators are the rate of return on assets and the rate of return on equity (ROA).

The study concluded that there is a significant relationship between the independence of the Board of Directors and the CEO and the financial performance of French institutions, as well as the existence of a negative moral relationship between the duplication of the CEO and the financial performance of the French institutions on the other hand, and the study also concluded that there was no significant effect of the size of the board of directors and the number of its meetings on the financial performance of the French institutions under study

# A study (Ghazi Al-Otaibi, 2018) entitled: "The impact of the CEO's traits on the financial performance of public institutions in Kuwait."

This study aimed to assess the impact of the CEO's attributes on the financial performance of public companies in Kuwait. To test it by applying it to a sample of 35 public institutions in the period 2012-2016. The study used two measures of financial performance, namely profit distribution and debt ratio, while the independent variables included four characteristics: age, gender, number of years of appointment of the CEO, and education level, while the control variables were fixed assets ratio and debt ratio. Including company size & using unit root tests such as (Dickey - Fuller) and (Phillips Peron) as well as multiple regression analysis, the results of the study concluded that there was no statistically significant effect at a significant



level (0.05) for the gender of the CEO, the age of the CEO and the educational level on the financial performance in Kuwaiti public investment companies are measured by the percentage of dividends, with a statistically significant effect at a significant level (0.05) on the duration of the position of the CEO, the percentage of fixed assets, and the size of the company's assets on the financial performance of the Kuwaiti public. Investment companies, measured by the percentage of dividends. The results of the study concluded that at the significance level (0.05) for the term of office of the CEO, the level of education and the percentage of fixed assets, there was no statistically significant effect on the financial performance of Kuwait and public investment companies, as measured by a percentage of debt, while there is a statistically significant effect at the significance level (0.05).

The age of the CEO, the gender of the chairman of the board of directors, and the size of the company's assets in relation to the financial performance of Kuwaiti public investment companies, as measured by the debt ratio. The study recommended encouraging Kuwaiti companies to follow the best practices regarding the characteristics of the CEO because of their impact on the value of the company in resolving disputes and conflict of interests in it, and a comparative study of the characteristics of the CEO with regard to the financial performance between Kuwaiti investment companies and joint stock companies from one country or another. And the need to pay attention to applied studies that measure the characteristics of the executive director in relation to financial policy over multiple periods over time to determine the extent to which the characteristics of the executive director have evolved in Kuwaiti public properties.

# A study (Fathi Al-Juwasmi, 2018) entitled "The characteristics of the board of directors and their impact on financial performance", an analytical study of the banking sector in the Saudi market.

This study aimed to know the impact of the characteristics of the board of directors on the financial performance of the banking sector in the Saudi market. The application was applied to a sample of (11) banks registered in the Saudi market from 2016 to 2018. The researcher relied on the descriptive analysis approach, analysis of the correlation between variables and multiple regression analysis. The study concluded that in terms of return, there is a positive and statistically significant relationship between the CEO of the royal family; the relationship was negative between the return on capital and return on equity, the size of the board of directors, the number of board meetings, and the percentage of independent board members and the share of ownership of the head of the department. And its shares are traded in the Saudi stock market in light of corporate governance in order to maintain the best ratio to apply corporate governance rules to ensure the continued positive impact of corporate governance rules on financial performance. And the need for the state and specialized bodies such as the Saudi Capital Market Authority to intervene to issue laws and regulations to impose penalties and penalties on banks and other companies for non-compliance with governance regulation

# Bani Atta's study (2019) entitled: "The characteristics of the board of directors and their impact on financial performance: An applied study on industrial companies listed



# on the Amman Stock Exchange."

This study aimed to demonstrate the impact of the characteristics of the board of directors and their impact on financial performance through an applied study on industrial companies listed on the Amman Stock Exchange, as the board of directors has characteristics that have a clear role in carrying the board of directors to many burdens in order to play its role in protecting the rights of all dealers with the company and from then the nature of the board of directors consisting of the CEO had a clear and main role in the success of the institutions, by relying on many of the characteristics of the board of directors. This study was applied to a number of industrial companies listed on the Amman Stock Exchange, which amount to 22 industrial companies. The study reached its conclusions, including that the characteristics of the board of directors play an important role in the efficiency of financial management, its quality and development, and the transparency and continuity of profits

### A study (2016, Hsueh - En Hsu) entitled:

### The Relationship between Board Characteristics & Financial Performance (SEO)

This study examines the relationship between board characteristics and the financial performance of 223 US companies making initial public offerings from 2000 to 2002. Boards of directors of 223 US companies making initial public offerings from 2000 to 2002. Board characteristics include the independence of the board (ie the boards they control outsiders), the board of directors includes the independence of the board of directors (i.e. boards dominated by outsiders), the quality board (i.e. board experience and educational background) and venture capital managers. Financial performance is measured by Tobin's Q as the sum of the market value of shares, book value of preferred shares, and book value of total debt divided by the book value of the company's assets. A sample of companies is obtained from the Thompson Financial SDC database. The empirical results show that the independence of the board of directors is negatively related to the company's performance. As expected, the quality of the board of directors is positively correlated with the performance of the company. As expected, the quality of the board of directors is positive for the company's performance. It is considered positive management and is positively related to the company's performance. However, there is no evidence that venture capital managers or company performance. This is why venture capital managers positively correlate with financial performance, networked financial performance

#### A study (2017, Abdelmoneim.elal)

# The effect of the characteristics of the board of directors on the period of issuing the auditor's report, applied studies

This study aimed to indicate the impact of the characteristics of the board of directors on the period of issuing the auditor's report, and the sample of the study was represented in the Jordanian joint stock companies during the period 2011-2013. Therefore, the use of cumulative regression analysis to measure the relationship between the variables, as the suitability of the model was confirmed through the test of normal distribution, autocorrelation,



unit root test and the instability of time series. Managing the company and allocating the time necessary to carry out its work with integrity and transparency in the interest of the company, its goals and objectives. The auditor's report also entails mentioning important matters taken by the general assembly of shareholders, the most important of which is whether or not the members of the board of directors express their liability, as well as the appearance of an impact on the number of external board members, the percentage of external board members, and the number of members who have duplication of duties over the issuance period.

### A study (2017, Norman Mohd Saleh) entitled:

# "The association between CEO characteristics, internal audit quality & risk - management implementation in the public sector"

This study examines the relationships between the characteristics of the CEO and the implementation of risk management in public sector institutions in Malaysia. In this study, two personality traits of CEOs were examined: (1) a locus of control, and (2) a tendency to take risks. In addition, this study also examines the role of internal audit quality as a mediator of the relationship between the CEO and the implementation of risk management. The data were obtained from surveys conducted on the chief executives of federal and state legal agencies in Malaysia. 55 samples were analyzed using hierarchical multiple regression analyses. This study found that only the CEO's inclination to take risks is positively related to the implementation of risk management. However, internal audit quality has been found to facilitate the relationship between the position of chief control officer and the implementation of risk management. The results indicate that appointing a CEO with the right attributes, i.e. risk bias, and improving the quality of internal audit can help government agencies to accelerate risk management activities within their organization.

# The study population and its sample

The study population consisted of all Jordanian corporations, according to the location of the Amman Financial Market. Questionnaires were distributed in the electronic form to the aforementioned employees, i.e. a total of (250) questionnaires, and (206) questionnaires were retrieved, of which (183) were valid for analysis.

#### Study Tool

The questionnaire constitutes the study tool and the first basic step for collecting data related to the study variables. It precedes the statistical analysis process and consists of a set of questions that clarify the study variables. The questionnaire was prepared, built and developed based on previous Arab and foreign studies, theses and scientific research. The questionnaire consisted of two parts; the first section included personal data, while the second section included questions about the study variables**5** Test the

#### testing the stability of the study tool

The researcher tested the reliability of the tool used to measure the variables it contains by using Cronbach's alpha coefficient test, where the result of the scale is statistically acceptable if the value of Cronbach's alpha is greater than (0.70), and the closer the value is to 100%, this indicates a higher degree of stability for the study tool, given the data provided in Table.



The Cronbach's alpha coefficient was measured for the study variables and their dimensions and for the study tool as a whole to determine the consistency of the answers. This is as follows values of the internal consistency coefficient for the items of the study tool

No.	The dimension	alpha value
1	CEO Characteristics	0.866
2	Efficiency	0.817
3	Independence	0.815
4	Scope of internal audit work	0.831
5	Financial performance	0.776
6	Non-financial performance	0.769
7	all paragraphs	0.939

We note that the values of the internal consistency coefficient Cronbach's alpha for the elements of the study tool ranged between (0.769 - 0.866), and its value for all paragraphs was (0.939), and therefore all values are greater than (0.70), and this is an indication of the consistency between the paragraphs of the study tool and the reliability of the study tool and the possibility of reliability to perform statistical analysis.

### **Statistical Processing**

The researcher used the following statistical methods: The statistical package for social sciences SPSS was used in the following different statistical analyses:

- 1) Descriptive statistics: frequencies, percentages, arithmetic means, and standard deviations were used to provide a comprehensive description of the degree of agreement of the study sample to the various items.
- 2) Descriptive statistics procedures through percentages, frequencies, arithmetic means and standard deviations.
- 3) The internal stability coefficient (Cronbach's alpha) to measure the stability of the study tool, which is the questionnaire.
- 4) Multiple linear correlation test.
- 5) Simple and hierarchical linear regression.
- 6) The relative importance was determined according to the following formula and according to the five-point scale for the alternatives to answer each paragraph.

Where the number of levels is: Low, Medium, High

- 1. Low level if arithmetic mean of  $1.0 \ge$  mean score  $\le 2.33$
- 2. Intermediate level if the arithmetic mean of  $2.34 \ge$  mean score  $\le 3.67$
- 3. High level if it reaches an arithmetic mean of  $3.68 \ge$  mean score  $\le 5.00$

#### Description of the characteristics of the study sample

This part includes a description of the definition and demographic characteristics of the study sample, which are: (practical experience, educational qualification, specialization, job title, and accounting certificates). In order to describe the characteristics of the study



sample, the frequencies and percentages of demographic variables for the study sample were found as follows:

Years of experience

Distribution of sample members according to the variable years of experience

The variable	Category	Repetition	%
Years of experience	Less than 3 years old	8	4.4
	From 3 - less than 6 years	50	27.3
	From 6 - less than 9 years old	87	47.5
	9 years and over	39	20.8
	Total	183	100%

We notice from Table that the sample members with experience (6 - less than 9 years) made up the largest percentage, which amounted to (47.5%), and this indicates that the managers of Jordanian corporations have the expertise necessary to take over positions and perform the duties assigned to them.

# Academic Qualification

Distribution of the sample members according to the educational qualification variable

The variable	Category	Repetition	%
Academic	Diploma	12	6.6
Qualification	Bachelor's	126	68.9
	Master's	38	20.8
	PhD	7	3.8
	Total	183	100%

We note that holders of a bachelor's degree made up the largest percentage, amounting to (68.9%), and this is consistent with the general trend in Jordanian shareholding companies to employ bachelor's holders as a minimum. We also note that holders of diploma and higher certificates made up the rest of the study sample, and this indicates that managers in industrial companies have the necessary knowledge.

Scientific specialization

Distribution of sample members according to the variable of scientific specialization

The variable	Category	Repetition	%
Scientific	Accounting	48	26.2
specialization	Finance and Banking Science	49	26.8
	Economy	86	47
	Total	183	100%

We note that the sample included all economic, accounting and banking disciplines.



# Job title

Distribution of sample members according to job title variable

The variable	Category	Repetition	%
Academic	Financial Manager	32	17.5
Qualification			
	Internal Audit Manager	46	25.1
	Internal Auditor	71	38.8
	Head of accounts	34	18.6
	department		
	Total	183	100%

We notice from Table (7) and Figure (5) that the sample members were distributed among all the nomenclature

#### **Professional certificates**

Distribution of sample members according to the variable of professional certificates

The variable	Category	Repetition	%
Professional certificates	CPA	39	21.3
certificates	JCPA	42	23.0
	JCIA	42	25.0
	СМА	77	42.1
	CIA	25	13.7
	Total	183	100%

We notice that the sample members hold various professional certificates.

#### Analysis of study data

The arithmetic averages, relative deviations, and relative importance were relied upon in describing the study variables, and the results were as follows:

# Description of the independent variables: the quality of the internal audit

#### Efficiency

Arithmetic averages and standard deviations Rank and relative importance of competency clauses



#	Paragraph	SMA	Standard Deviation	Rank	Relative importance
1	The internal auditor performs his work in a correct and sound manner	4.06	.664	2	High
2	All available resources and funds are exploited in order to obtain the greatest possible benefit from the internal audit process.	4.01	.719	4	High
3	A comparison is made between the achieved goals and the planned goals by the internal auditor	3.96	.759	7	High
4	The experience of the internal auditor helps to improve the quality of internal auditing	4.03	.702	3	High
5	The internal auditor uses accounting software that primarily improves the quality of internal auditing	3.98	.781	5	High
6	Professional certificates support the efficiency of the internal auditors working in the company	3.98	.815	6	High
7	Internal auditors are primarily bound by professional accounting standards	4.16	.713	1	High
	Overall Avg	4.0273	.50942		High

We note from the previous table that the general arithmetic mean of the trends of the sample members towards efficiency in terms of relative importance is average, where the arithmetic mean was (4.0273) and with a standard deviation (0.50942). The paragraph (internal auditors are primarily committed to professional accounting standards) ranked first with an arithmetic average (4.16) and with a high relative importance, while the paragraph (a comparison is made between the achieved goals and the goals planned by the internal auditor) ranked last with an arithmetic average (3.96) and with a high relative importance



# Independence

Arithmetic averages, standard deviations, ranks and the relative importance of the independence items

#	Paragraph	SMA	Standard Deviation	Rank	Relative importance
1	The internal auditors are appointed with the approval of the Audit Committee	4.12	.626	1	High
2	Internal auditors report on an ongoing basis to the Audit Committee	4.05	.724	3	High
3	The body responsible for following up the promotion of internal auditors and following up on their salaries is the Audit Committee	4.05	.713	2	High
4	The Audit Committee ensures that the management does not hide any information or data necessary for the performance of the internal audit functions	3.90	.745	5	High
5	The Audit Committee requests the Board of Directors to provide compelling reasons for not adopting the recommendations of the internal auditors	3.97	.770	4	High
	Overall Avg	4.0175	.54361		High

We note from the previous table that the general arithmetic mean of the sample members' trends towards independence in terms of relative importance is high, where the arithmetic mean reached (4.0175) and with a standard deviation (0.54361). The paragraph (the internal auditors are appointed with the approval of the Audit Committee) ranked first with a mean (4.12) and with a high relative importance, while the paragraph (the internal auditors continuously submit their reports to the Audit Committee) ranked last with a mean (4.05) and with high relative importance.



# The scope of the internal audit work

Arithmetic averages, standard deviations, ranks and the relative importance of the paragraphs of the internal audit scope of work

#	Paragraph	SMA	Standard Deviation	Rank	Relative importance
1	The internal auditor is bound by the rules, laws and regulations in force in the company	4.14	.742	1	High
2	The internal audit function in the company includes all activities and operations related to financial, operational and administrative matters.	4.05	.863	3	High
3	Weaknesses in the company's internal audit system are continuously exposed in order to ensure that the audit process is effective.	4.06	.730	2	High
4	The company's internal auditor continuously tests financial, administrative and operational information and accounting systems	4.04	.708	4	High
	Overall Avg	4.0751	.62251		High

We note from the previous table that the general arithmetic mean of the trends of the sample members towards the scope of the internal audit work in terms of relative importance is high, where the arithmetic mean was (4.0751) and with a standard deviation (0.62251). The paragraph (the internal auditor abides by the laws, laws and regulations in force in the company) ranked first with an arithmetic average of (4.14) and with a high relative importance, while the paragraph (the internal auditor in the company continuously tests financial, administrative and operational information and accounting systems) ranked last With an arithmetic mean (4.04) and a high relative importance.

To compare the dimensions of internal audit quality, the following table has been prepared:

Arithmetic averages, standard deviations, ranks and the relative importance of the dimensions of internal audit quality

#	The dimension	SMA	Standard Deviation	Rank	Relative importance



1	Efficiency	4.0273	.50942	1	High
2	Independence	4.0175	.54361	3	High
3	Scope of internal audit work	4.0751	.62251	2	High
In	ternal audit quality	4.0400	.44959		High

We note from the previous table that the general average of the dimensions of internal audit quality in terms of relative importance is high, with a general average of 4.0400 and a standard deviation of 0.44959. The dimension of (the scope of the work of the internal audit) ranked first with a mean of (4.0751) and a standard deviation of (0.62251) and of high relative importance, while the dimension (independence) came in the last place with a mean (4.0175) and a standard deviation (54361.) and of relative importance High.

# The modified variable: the characteristics of the CEO

Arithmetic averages, standard deviations, ranks, and the relative importance of the CEO's characteristics paragraphs

#	Paragraph	SMA	Standard Deviation	Rank	Relative importance
1	Older CEOs take more time to make decisions with the knowledge they possess.	4.25	.604	2	High
2	Older CEOs tend to prefer guaranteed profit.	4.20	.549	5	High
3	Older CEOs have more experience in obtaining and evaluating information.	4.16	.659	6	High
4	The younger CEOs work on developing creative changes, which makes the company more ahead of its competitors.	4.15	.651	7	High
5	Younger CEOs are investing in research and development more than older CEOs	4.21	.575	4	High
6	CEOs with longer tenures in office usually gain more power and authority within the company, which leads to better performance.	4.15	.625	8	High
7	The appointment of the CEO	4.09	.623	11	High



	Overall Avg	4.1304	.38525		High
	knowledge and experience				
	within the company have more				
	Directors or any position				
	Chairman of the Board of				
15	CEOs who hold the position of	4.25	.622	3	High
	of the company				
	in increasing the performance				
	the CEO has an important role				-
14	The scientific qualification of	4.11	.670	10	High
	female CEOs is lower than that of male CEOs				
13	The compensation structure of	4.13	.696	9	High
	take risks than female CEOs.				
12	Male CEOs are more likely to	4.26	.677	1	High
	they make investment decisions from male CEOs.				
11	Female CEOs differ in the way	3.97	.702	14	High
	directors.	2.67			
	oversight in the board of				U
10	Female CEOs tend to increase	3.92	.707	15	High
	the CEO by the Board.				
	which affects the objectivity of the performance evaluation of				
	of the Board of Directors,				
	relationship with the members				
	for a long period may build a				
9	The appointment of the CEO	4.03	.733	13	High
	Directors.				
	independence of the Board of				
	term would prejudice the				
	Executive Officer for a long				
8	The appointment of the Chief	4.08	.686	12	High
	of the company's culture and operations well.				
	because of his understanding				
	continuity to the company				
	for a long time gives				

We note from the previous table that the general arithmetic mean of the trends of the sample members towards the characteristics of the CEO in terms of relative importance is high, where the arithmetic mean reached (4.1304) with a standard deviation of (.38525). The paragraph (the men CEOs tend to take risks more than women CEOs) ranked first with a



arithmetic average (4.26) and a high relative importance, while the paragraph (that women CEOs tend to increase oversight in the board of directors) ranked last with an arithmetic average (3.92) with a high relative importance.

#### The dependent variable: the performance of companies

### **Financial performance**

Arithmetic averages, standard deviations, ranks, and the relative importance of the financial performance items

#	Paragraph	SMA	Standard Deviation	Rank	Relative importance
1	The company has the ability to make maximum use of its available resources, which contributes to making a profit.	4.05	.698	7	High
2	The company has the ability to pursue a policy of cost cutting without compromising its market share	4.17	.710	2	High
3	The company has the ability to conduct a cost-reduction policy without compromising the quality of its products	4.14	.720	5	High
4	The size of the company's profits corresponds to the quality of the products and the nature of the services it provides to customers	4.17	.769	3	High
5	The company increases the wealth of its shareholders and provides a real return on investment	4.16	.697	4	High
6	The dividends distributed to the company's shareholders are in line with their preferences and expectations	4.10	.735	6	High
7	The company applies management methods and policies that contribute to increasing the volume of future cash flows	4.21	.817	1	High



High

Overall Avg 4.1418 .47738

We note from the previous table that the general arithmetic mean of the sample members' trends towards financial performance in terms of relative importance is average, where the arithmetic mean reached (4.1418) and with a standard deviation of (0.47738). The paragraph (the company applies management methods and policies that contribute to increasing the volume of future cash flows) ranked first with an arithmetic average (4.21) and of high relative importance, while the paragraph (the company has the ability to make maximum use of its available resources, which contributes to achieving profit (4.05) with a high relative importance.

#### Non-financial performance

Arithmetic averages, standard deviations, ranks and the relative importance of non-financial performance items

#	Paragraph	SMA	Standard Deviation	Rank	Relative importance
1	The company has the ability to enter new markets in order to increase its sales	4.01	.687	6	High
2	The company has the ability to follow sound policies in the process of collection, inventory management, and payment of obligations	4.09	.665	2	High
3	The financial indicators and ratios that reflect the company's profits are high compared to similar companies in the industry.	4.06	.673	5	High
4	The company has the ability to keep pace with modern technology in order to develop its internal operations	4.09	.729	3	High
5	The company has the ability to rely on modern and advanced methods and processes in its production processes	4.11	.670	1	High
6	The company has the ability to continuously evaluate its operational performance to determine the effectiveness of operations and address	4.07	.708	4	High



weaknesses			
Overall Avg	4.0701	.46956	High

We note from the previous table that the general arithmetic mean of the sample members' trends towards non-financial performance in terms of relative importance is high, as the arithmetic mean reached (4.0701) and with a standard deviation (46956.). The paragraph (the company has the ability to rely on modern and advanced methods and processes in its production processes) ranked first with an arithmetic average (4.11) and a high relative importance, while the paragraph (the company has the ability to enter new markets in order to increase its sales came in the last rank with an average of arithmetic (4.01) and with a high relative importance.

#### Multi collinearity test

To test the suitability of the study model for the analysis of linear and hierarchical regression, the phenomenon of multiple linear correlations was tested, as this phenomenon indicates that there is an almost perfect linear correlation between two or more variables, which inflates the value of the determination coefficient  $R^2$  and makes it greater than its true value. Among the independent variables according to the study model, the results were as follows:

The variable	CEO Characteristics	Efficiency	Independence	scope of the work of the internal audit
СЕО	1.000			
Characteristics				
Efficiency	0.574**	1.000		
Independence	0.506**	0.489**	1.000	
scope of the	0.545**	0.400**	0.521**	1.000
work of the				
internal audit				

Correlation matrix for independent variables

\*\* Indicates a significance level of 0.05

Table shows that the highest correlation coefficient was between the two variables (efficiency) and (the characteristics of the CEO), which is (0.574), which is less than (0.80), and this indicates the absence of the multiple linear correlation phenomenon between the variables, where the value of the correlation coefficient is greater than (0.80) an indication of the existence of the multiple linear correlation problem The Variance Inflation Factor (VIF) test was also used for all independent variables to confirm the previous result, which is the absence of multiple linear correlations, and the results were as follows:

Results of the multiple correlation test between independent variables

ToleranceVIFThe variable
--------------------------



0.535	1.869	CEO Characteristics		
0.617	1.622	Efficiency		
0.616	1.624	Independence		
0.622	1.608	scope of the work of the		
		internal audit		

The result of the coefficient of variance inflation test indicates that there is no problem of multiple linear correlation between the study variables, as all values were greater than 1 and less than 10, and the value of (Tolerance) was confined between the number 0.1 and the number 1.

### Testing the hypotheses of the study

In this section of the study, hypothesis testing will be analyzed, where simple linear regression analysis and hierarchical regression analysis were used, and the results were as follow

### The first main hypothesis H01

There is no impact on the quality of internal auditing on the financial performance of Jordanian corporations. To test and test the first main hypothesis, simple linear regression analysis was used, and the results were as follows:

Coefficient				ANOVA		Model Summary		Dependent variable	
Sig t*	Calculated	Standard	В	Statement	Sig F*	Calculated	<b>R</b> <sup>2</sup>	R	
Indication	Т	error			Indication	F			
level					level				
0.000	9.959	0.063	0.0632	Internal	0.000	99.178	.354	.595	Financial
				audit					performance
				quality					

\* Results of testing the first main hypothesis H01

\*The effect is statistically significant at the level  $(0.05 \ge \alpha)$ .

the value of (R = 0.595), which means that there is a positive relationship between (the quality of internal auditing) and (the financial performance). It turns out that the value of the coefficient of determination is ( $R^2$ =0.354), which means that (the quality of internal auditing) has explained the amount of (35.4%) of the variance , while keeping other factors constant. It also shows that the value of (F) reached (99.178) at a confidence level (Sig = 0.000), and this confirms the regression at the level ( $0.05 \ge \alpha$ ).

It also appears from the coefficients table that the value of (B = 0.632) was (T = 9.959) at a level of confidence (Sig = 0.000), and this confirms the coefficient at the level ( $0.05 \ge \alpha$ ).

Based on the above, we reject the first main null hypothesis, and accept the alternative



hypothesis.

# There is a statistically impact of the quality of internal auditing on the financial performance of Jordanian corporations.

This result indicates the great role that the quality of internal audit plays in the financial performance of companies, as the quality of internal audit is vital for every organization to achieve effective management of resources, which leads to improved financial performance as a key implementation strategy of the accounting system and helps management to check the functioning of each department within the company as a whole. it indicated that there is a statistically significant impact of the quality of the internal audit on the financial performance of companies.

# The second main hypothesis H02: There is no impact on the quality of internal auditing on the non-financial performance of Jordanian corporations.

Coefficient				ANOVA		Model Summary		Dependent variable	
Sig t*	Calculated	Standard	B	Statement	Sig F*	Sig F* Calculated		R	
Indication	Т	error			Indication	F			
level					level				
0.000	9.110	0.064	0.586	Internal	0.000	82.985	.314	.561	Non-Financial
				audit					performance
				quality					

\* The results of testing the second main hypothesis

\*The effect is statistically significant at the level  $(0.05 \ge \alpha)$ .

The results indicate that the value of (R = 0.561), which means that there is a positive relationship (the quality of internal auditing) and (non-financial performance) and it turns out that the value of the coefficient of determination is ( $R^2 = 0.314$ ), which means that the quality of the internal audit has explained an amount (31.4%) of the variance in (non-financial performance), while keeping other factors constant. It also shows that the value of (F) reached (82,985) at a confidence level (Sig = 0.000), and this confirms the significance of the regression at the level ( $0.05 \ge \alpha$ ).

It also appears from the coefficients table that the value of (B = 0.586) and the value of (T = 9.110) at the level of confidence (Sig = 0.000), and this confirms the significance of the coefficient at the level ( $0.05 \ge \alpha$ ).

Based on the above, we reject the second main null hypothesis and accept the alternative main hypothesis that says:

\*There is an impact of the quality of the internal audit on the non-financial performance of the Jordanian corporations.

The third main hypothesis H03



There is no impact of the quality of internal audit on the financial performance of Jordanian corporations in light of the characteristics of the CEO.

To test the third main hypothesis, hierarchical regression was used, and the results were as follows:

\* Results of the hierarchical regression to show the modified role of the CEO's characteristics on the financial performance

	Step 2		Step 1		Independent	Dependent	
Sig t	Calculated	В	Sig t	Calculated	В	variables	variable
	t			t			
0.000	5.497	0.461	0.000	9.959	0.632	Internal audit	
						quality	Financial
0.003	3.031	0.297				CEO	performance
						Characteristics	
	0.385			0.354		<b>R</b> <sup>2</sup>	
	56.428			99.178		$\Delta \mathbf{F}$	
	0.000			0.000		$\operatorname{Sig} \Delta \mathbf{F}$	

\*The effect is statistically significant at the level  $(0.05 \ge \alpha)$ .

the results of a hierarchical regression based on two models, as the results of the first model based on the first step reflected a statistically significant impact of the quality of internal auditing on financial performance, where the value was ( $\Delta \mathbf{F} = 99.178$ ) and at a level of significance (Sig  $\Delta \mathbf{F}$  0.000 which is less than 0.05, as it was The value of the coefficient of determination (

 $R^2 = 0.354$ ), and this indicates that the quality of the internal audit explains 35.4% of the variance in financial performance.

In the second step, the variable (Chief Executive Officer Characteristics) was entered into the regression model, where the value of the coefficient of determination was ( $R^2 = 0.385$ ), and it is noted from that an increase in the value of  $R^2$  by (0.031), and this increase is statistically significant as the value of ( $\Delta F = 56.428$ ).

And with a level of (Sig  $\Delta$  F=0.000), which is less than 0.05, as was the value of (B=0.297) at (the characteristics of the CEO), and at a level of significance (Sig t=0.003), and this confirms the positive impact of the CEO characteristics variable on the relationship between the quality of internal auditing and the financial performance of Jordanian corporations.

# Accordingly, we conclude that: "there is an impact of the quality of internal auditing on the financial performance of Jordanian corporations in light of the characteristics of the CEO."

This result can be clarified through the role that the CEO's characteristics play in improving and developing the quality of internal auditing, which in turn positively affects the financial



performance, as well as through the selection of competent internal auditors with expertise who make improvements to the adequacy and effectiveness of financial performance in companies.

# The fourth main hypothesis H04

There is no impact of the quality of internal audit on the non-financial performance of Jordanian corporations in light of the characteristics of the CEO.

To test the fourth main hypothesis, hierarchical regression was used, and the results were as follows:

\* Results of the hierarchical regression to show the modified role of the CEO's characteristics on the Non-financial performance

	Step 2		Step 1		Independent	Dependent	
Sig t	Calculated	В	Sig t	Calculated	В	variables	variable
	t			t			
0.000	3.817	0.312	0.000	9.110	0.586	Internal audit	
						quality	Non-Financial
0.000	4.991	0.475				CEO	performance
						Characteristics	
	0.398			0.314		<b>R</b> <sup>2</sup>	
	59.431			82.985		$\Delta \mathbf{F}$	
	0.000			0.000		$\operatorname{Sig} \Delta \mathbf{F}$	

\*The effect is statistically significant at the level  $(0.05 \ge \alpha)$ .

the results of a hierarchical regression based on two models, as the results of the first model based on the first step reflected a statistically significant impact of the quality of internal auditing on non-financial performance, where the value was ( $\Delta F = 82.985$ ). And at the level of significance **Sig**  $\Delta F$ = (0.000) which is Less than 0.05, and the value of the coefficient of determination was (R<sup>2</sup>=0.314), and this indicates that the quality of internal audit explains 31.4% of the discrepancy in non-financial performance.

In the second step, a variable (the characteristics of the CEO) was entered into the regression model, where the value of the coefficient of determination was ( $R^2 = 0.398$ ) and it is noted from this that an increase in the value of  $R^2$  increased by (0.084), and this increase is statistically significant, as the value was ( $\Delta F = 59.431$ ).

And at a level of significance (Sig  $\Delta$  F=0.000), which is less than 0.05, as was the value of (B = 0.475) at (characteristics of the CEO), and at a level of significance (Sig t=0.000), and this confirms the effect the positive variable of the CEO characteristics in the relationship between the quality of internal auditing and the non-financial performance of Jordanian corporations.



Accordingly, we conclude that: "there is an impact of the quality of internal auditing on the non-financial performance of Jordanian corporations in light of the characteristics of the CEO."

Development this result can be clarified through the role that the CEO's characteristics play in the quality of internal audit, which in turn positively affects the non-financial performance.

## The results

By analyzing the study questions and testing its hypotheses, the study reached the following results:

1. The quality of the internal audit positively and importantly affects the financial performance of Jordanian corporations.

2. The quality of the internal audit positively and importantly affects the non-financial performance of Jordanian corporations.

3. The characteristics of the CEO have a significant positive impact on the relationship between the quality of internal auditing and the financial performance of Jordanian corporations.

4. The characteristics of the CEO have a significant positive impact on the non-financial performance of the Jordanian corporations in light of the characteristics of the CEO.

#### Recommendations

In this part, the researcher presents a set of suggestions and recommendations that may be useful to the supervisory and management authorities, which contribute to enhancing the role of internal audit quality in the performance of companies, as well as activating the role of the CEO's characteristics. The relationship between internal audit qualities in the performance of companies, both financial and non-financial, including that's the following

The necessity of strengthening and improving the internal audit function in Jordanian companies and working to increase its quality.

The need for companies to improve their performance, both financial and non-financial, by focusing more on the characteristics and attributes of the CEO.

The necessity for companies to keep abreast of developments and technologies related to internal auditing and to use them in internal audit operations in Jordanian corporations.

Carrying out studies similar to this study in other fields such as the service and financial field, this contributes to enhancing the understanding of the role of the chief executive's characteristics in the relationship between the quality of internal auditing and performance, both financial and non-financial.

Conducting other studies on the relationship between the quality of internal auditing and performance, both financial and non-financial, dealing with a modified variable other than the



characteristics of the CEO, such as organizational culture, organizational climate, or organizational structure.

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