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SOURCES OF FINANCING AND THEIR IMPACT ON FINANCIAL  
SAFETY: AN APPLIED STUDY ON A SAMPLE OF PRIVATE BANKS  
LISTED IN IRAQ STOCK EXCHANGE

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**Key Words: Sources Financing & Financial Safety.**

**ABSTRACT**

The current research seeks to identify the impact of funding sources as a variable on financial safety, and in order to achieve the goal of the research, the Iraqi Stock Exchange was chosen as an applied field represented by private banks, and the research sample included (10) private banks and on the basis of a time series of (10) years. The results were reached using a statistical program such as (SPSS.V.25) to analyze the data to reach conclusions, the most prominent of which was the existence of a correlation and impact relationship between funding sources and financial soundness.

**INTRODUCTION**

Measuring the choice of the optimal mix of finance sources for the bank is one of the important issues that concern all types of organizations, especially the banking sector, as banks need to take care of and take into account the important issues in the field of developing bank management. This is due to its importance related to maximizing the shareholders' wealth, which is the main objective sought by the bank's management, as financial safety is the measure through which owners can evaluate the efficiency of the bank's management. Deposits are the main source on which commercial banks rely to finance their assets, as deposits distinguish commercial banks from other financial institutions.

## THE FIRST PAPER: METHODOLOGY OF RESEARCH

### *Second: The Importance of Research*

The importance of searching through the following points: -

- 1- The importance of indicating the reasons for the low financial safety indicators of the bank.
- 2- Studying the measurement of the relationship between the sources of finance and their role in improving the financial safety of the bank and thus improving the financial position of the bank.
- 3- The sources of finance are of particular importance in terms of how they measure the needs of the bank for funds and their impact on financial safety.

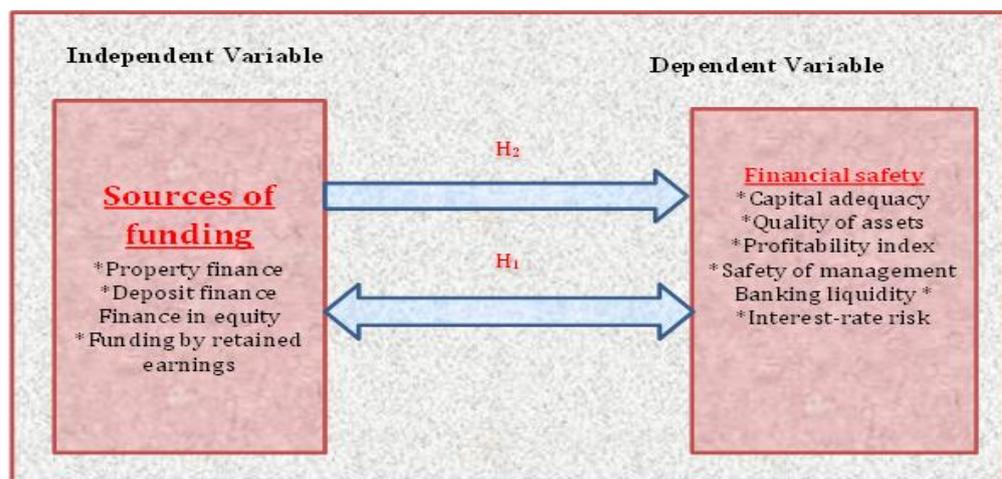
### THIRD: RESEARCH OBJECTIVES

The main objective of the study is to explain how the sources of financing of banks, while measuring the bank's needs for funds, affect the financial integrity of the bank, and therefore the research objectives can be limited to:-

- 1- Analyzing the financial safety indicators and indicating the extent of their decline or fluctuation.
- 2- Identify the sources of finance and determine the type of relationship between the sources of finance and the financial safety of the research sample banks.
- 3- Highlighting various aspects, including the cognitive and philosophical aspect related to the sources of finance and the financial safety of the bank.
- 4- Diagnose and identify the most prominent sources and indicators of financial safety.

### FOURTH: THE RESEARCH MODEL

The purpose of this paragraph is to elaborate an outline for the research to achieve the objectives to which they are aimed see figure (1).



**Figure (1)** Search hypothesis diagram

**Source:** Prepared by the researcher

## **FIFTH: RESEARCH HYPOTHESES**

Key hypothesis 1 (H1): There is no significant correlation between funding sources and financial safety.

Second Main hypothesis (H2): There is no significant effect between funding sources and financial safety.

## **THE SECOND PAPER: THEORETICAL FRAMEWORK**

### ***First: The Concept of Sources of Finance***

Finance is one of the activities of the business sectors in the economy and no individual, organization or country can operate and continue to live without money. The organization, like banks and corporations, needs financing to cover its requirements and finance its investments. Financing means a set of facts, principles and theories that go deeper into the acquisition of funds from different sources and the good use of them for individuals, businesses and governments (Beck et al., 2008:468). Finance is a process that covers all the necessary procedures for securing the company's capital, first for investment purposes, and also a component of financial management that is linked to understanding the financial market and financial management of resources within the company, the problem of financing is to determine the size and best proportion of the capital required to develop the company's operations (Girischankar, 2009:11).

Finance is the set of tools, methods and tools we use to manage the project to obtain the funds needed to cover their investment activities and trade, and on this basis, the identification of the sources of financing the project depends on the resources available in the markets and financial environment in which it is located (Coutinho, 2010:14). Sandaleeb et al., 2016 pointed out that it is the administrative function in the organization that is concerned with planning and obtaining funds from the appropriate source of funding to provide the financial protests necessary for the performance of the various activities of the organization, thus helping to achieve its objectives. And striking a balance between the conflicting desires of the groups that influence the success and continuity of the enterprise, including investors, workers and managers.

### **SECOND: THE IMPORTANCE OF FUNDING SOURCES**

The purpose of the funding is to meet the financial protests of the institution, whether short-term, exploitative-cycle or long-term investment-cycle needs, and the importance of financing is as follows (ABOR, 2006:71); (Hale, 2011:2); (Atun et al., 2012:2045):-

1- Need for short-term funding: Institutions have to resort to short-term financing to finance the deficit in working capital resulting from the growth of the organization's internal activity, and during the course of its activity they have to cover their stocks and liabilities (ABOR, 2006:71).

### ***The Need for Long-Term Funding***

The Foundation uses this type of funding to cover its long-term investment activities, for the purpose of obtaining either means of production and equipment or real estate such as land, industrial, commercial and administrative buildings, and seeks funding for the purpose of achieving the following (ATUN et al., 2012:2045):-

- A- Financing the purchase of long-term permanent assets.
- B. Financing the permanent part of the working capital, with the other part to be financed by a mixture of overdraft and financing.

### **THIRD, THE COMPONENTS OF FUNDING SOURCES**

#### ***Property Rights:***

The enterprise can provide the funds it needs through internal sources, i.e. the property rights in the financial structure represented in (shares, retained profits, reserves).

#### ***2- Finance by Borrowing/By Borrowing***

Borrowing finance is considered one of the main sources in institutions as it is one of the investment alternatives for many investors, and it is usually used when the funds owned are insufficient to meet the needs of the institution or to avoid its costs, so that it is forced to borrow from external parties in order to guarantee the permanent financing of its investments. Thus, the achievement of the institution's long-term objectives is what is known as long-term borrowing and one of its most important forms of organization: Bonds, long-term loans (Hale,2011:2).

### **FOURTH: THE CONCEPT OF FINANCIAL SAFETY**

In view of the multiplicity of the concept of financial soundness and the diversity of its aspects and the division of its components, the possibility of relying on a single quantitative indicator capable of measuring its levels of existence and the extent of its availability becomes a matter of many unrealism and lack of accuracy. Therefore, the adoption of a comprehensive systemic concept to assess the safety of the financial system becomes an urgent financial and economic necessity. Hence, the IMF has come to develop a set of indicators that, in general, reflect the health of the financial system in a specific period, serve as diagnostic tools for weaknesses suffered by me and as a pointing tool for possible imbalances (Chihi, 2020:96). These are the financial empowerment of institutions through meeting expenditures, meeting commitments, efficient internal systems, the ability to survive changes, assessing financial performance, and the use of precautionary or corrective measures that put financial indicators in a precautionary position capable of early prediction of crises, and a corrective mode that enables them to cope with such crises (Khaled&slimene, 2021:14).

## **FIFTH: THE IMPORTANCE OF FINANCIAL SAFETY**

This is based on the importance of the financial safety of the bank and the emergence of an urgent need to apply the financial safety regulations of the institution, and to implement precautionary principles, so that the institution is in a sound state, so that it does not harm the customer associated with the services provided by it (Al-Ubeidi et al., 2018:14). By designing a program to assess the financial sector, identify weaknesses in the financial system and develop appropriate policy responses (Lawal, 2019:2). Through supervisory institutions, guiding methods are being found to develop management plans for financial crises, especially systemically important companies to take action as simulations of early warning systems (Van-Thep, 2019:35).

### **FINANCIAL SAFETY INDICATORS**

#### ***1- Capital Adequacy Index***

Concern for the adequacy and standards of bank capital has become a contemporary issue, as a result of the successive developments witnessed by the international markets, as banking (with regard to the type and nature of the sources and uses of funds) is exposed to many risks that may result from internal factors related to the bank's activity and management. External factors resulting from the change in the circumstances under which the bank operates, due to the privacy of the bank's business and its features associated with multiple and conflicting parties (Aweke et al., 2017:2).

#### ***2- Asset Quality Index***

The quality of assets refers to exposure to risks due to loans granted by the bank, the quality of bank loans is affected by the level of non-performing loans and the suitability and management of loan losses. Therefore, high-quality assets result in higher profit margins, and hence higher profits, however if banks have accumulated high non-performing loans, bad debts, and do not have good collateral to back their loans, there will be less chance of survival, thereby establishing a link between assets, profits and the safety of banks (9ALI et al., 2013:).

#### ***3- Profitability Index***

This method can yield a return commensurate with the volume of the bank's resources over a period of time. The bank's ability to make profits is achieved through an optimal investment of the bank's resources to achieve a return commensurate with the size of its resources over a period of time, and profitability is expressed in certain ratios: The rate of return on investment in a particular resource of the bank (Dorina, 2015:91).

#### ***4 – Bank Liquidity Index***

Liquidity refers to the bank's financial suitability and its ability to meet its short-term obligations on due dates, i.e. maintaining sufficient liquidity to carry out major operational operations and deal with emergencies. Although liquidity is important, this means lower returns so a balance must be struck between the need for liquidity security against liquidity investment and the achievement of additional profits (Bitar at Al.,2017:19).

### **RESEARCH III: THE PRACTICAL ASPECT OF THE STUDY**

#### ***First: - Analyzing the Sources of Funding***

This study will examine the nature of the activities of the banks sample the study as the sample of the study was represented by the Iraqi civil commercial banks listed on the Iraqi stock market, as the sample of the study was selected, which included ten banks: (Sumer Commercial Bank, Iraqi Credit Bank, Ahli Bank of Iraq, Middle East Bank, Mansur Investment Bank, Gulf Commercial Bank, Baghdad Bank, Mosul Development and Investment Bank, Iraqi Commercial Bank, Economy, Investment and Finance Bank) for the period (2010-2019).

The aim of this research is to analyze indicators of the sources of finance in the banks, which are four indicators for the commercial banks studied, and that the indicators to be analyzed are (the ratio of ownership funding, the percentage of retained earnings funding, the ratio of deposit financing, and the ratio of equity financing). The banks vary their money from owned to borrowed to deposited funds.

#### ***First: Analysis of rate of ownership financing***

The ratio of ownership funding is measured by the sum of equity divided by total claims and equity, so the higher the equity ratio indicates the higher the percentage of ownership financing compared to the borrowing finance (Aga, 2005: 100), where equity includes paid-up capital, reserves, and retained profits.

**Table (1):** Percentage of ownership funding in the sample banks

| <b>Bank name</b>                          | <b>2010</b> | <b>2011</b> | <b>2012</b> | <b>2013</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> | <b>2017</b> | <b>2018</b> | <b>2019</b> | <b>mean</b> | <b>S.D</b> |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| Sumer Commercial Bank                     | 0.403       | 0.387       | 0.306       | 0.328       | 0.404       | 0.463       | 0.546       | 0.488       | 0.587       | 0.633       | 0.455       | 0.109      |
| Iraqi Credit Bank                         | 0.276       | 0.269       | 0.272       | 0.262       | 1.264       | 0.179       | 1.742       | 1.696       | 0.642       | 0.723       | 0.732       | 0.615      |
| Al Ahli Bank of Iraq                      | 0.265       | 0.295       | 0.138       | 0.171       | 0.764       | 0.188       | 1.675       | 0.942       | 0.534       | 0.453       | 0.542       | 0.479      |
| Middle East Bank                          | 0.665       | 0.594       | 0.132       | 0.192       | 0.624       | 0.208       | 1.127       | 0.829       | 0.352       | 0.324       | 0.505       | 0.320      |
| Al-Mansour Investment Bank                | 0.145       | 0.094       | 0.419       | 0.342       | 0.933       | 0.227       | 1.413       | 0.713       | 0.340       | 0.302       | 0.493       | 0.412      |
| Gulf Commercial Bank                      | 0.423       | 0.600       | 0.108       | 0.090       | 0.308       | 0.119       | 0.571       | 0.472       | 0.252       | 0.301       | 0.325       | 0.188      |
| Baghdad Bank                              | 0.221       | 0.186       | 0.082       | 0.111       | 0.231       | 0.158       | 0.347       | 0.312       | 0.228       | 0.218       | 0.209       | 0.081      |
| Mosul Bank for Development and Investment | 0.086       | 0.120       | 0.090       | 0.082       | 0.243       | 0.139       | 0.254       | 0.361       | 0.262       | 0.174       | 0.181       | 0.095      |
| Commercial Bank of Iraq                   | 0.176       | 0.180       | 0.219       | 0.114       | 0.260       | 0.190       | 0.227       | 0.371       | 0.426       | 0.160       | 0.232       | 0.097      |
| Bank of Economy, Investment and Finance   | 0.688       | 0.660       | 0.400       | 0.760       | 0.614       | 0.431       | 0.490       | 0.427       | 0.370       | 0.256       | 0.510       | 0.162      |

|      |               |               |               |               |               |               |               |               |               |               |               |              |
|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| mean | <b>0.3348</b> | <b>0.3385</b> | <b>0.2166</b> | <b>0.2452</b> | <b>0.5645</b> | <b>0.2302</b> | <b>0.8392</b> | <b>0.6611</b> | <b>0.3993</b> | <b>0.3544</b> | <b>0.4184</b> | <b>0.206</b> |
|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|

**Source:** Created by the investigator based on Excel

***Second: - The Ratio Of Deposit Funding***

We note from table 2 that the average deposit finance for the banking sector reached 0.6537 with a standard deviation of 0.297. Other banks came in varying proportions.

**Schedule (2):** Percentage of bank deposit financing sample study

| <b>Bank name</b>                          | <b>2010</b>  | <b>2011</b>  | <b>2012</b>  | <b>2013</b>  | <b>2014</b>  | <b>2015</b>  | <b>2016</b>  | <b>2017</b>  | <b>2018</b>  | <b>2019</b>  | <b>mean</b>  | <b>S.D</b>   |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Sumer Commercial Bank                     | <b>0.500</b> | <b>0.426</b> | <b>0.407</b> | <b>0.417</b> | <b>0.401</b> | <b>0.385</b> | <b>0.333</b> | <b>0.369</b> | <b>0.279</b> | <b>0.268</b> | <b>0.378</b> | <b>0.070</b> |
| Iraqi Credit Bank                         | <b>0.594</b> | <b>0.659</b> | <b>0.646</b> | <b>0.929</b> | <b>3.159</b> | <b>0.356</b> | <b>2.437</b> | <b>1.643</b> | <b>0.562</b> | <b>0.167</b> | <b>1.115</b> | <b>0.984</b> |
| Al Ahli Bank of Iraq                      | <b>0.368</b> | <b>0.513</b> | <b>0.403</b> | <b>0.535</b> | <b>2.104</b> | <b>0.503</b> | <b>2.708</b> | <b>1.468</b> | <b>0.662</b> | <b>0.769</b> | <b>1.003</b> | <b>0.815</b> |
| Middle East Bank                          | <b>0.158</b> | <b>0.308</b> | <b>0.058</b> | <b>0.055</b> | <b>0.210</b> | <b>0.090</b> | <b>0.342</b> | <b>0.342</b> | <b>0.134</b> | <b>0.095</b> | <b>0.179</b> | <b>0.115</b> |
| Al-Mansour Investment Bank                | <b>0.788</b> | <b>0.842</b> | <b>1.288</b> | <b>0.733</b> | <b>1.749</b> | <b>0.711</b> | <b>2.316</b> | <b>1.319</b> | <b>0.632</b> | <b>0.318</b> | <b>1.070</b> | <b>0.601</b> |
| Gulf Commercial Bank                      | <b>0.428</b> | <b>0.298</b> | <b>0.074</b> | <b>0.102</b> | <b>0.224</b> | <b>0.111</b> | <b>0.395</b> | <b>0.435</b> | <b>0.413</b> | <b>0.275</b> | <b>0.276</b> | <b>0.143</b> |
| Baghdad Bank                              | <b>0.556</b> | <b>0.642</b> | <b>0.232</b> | <b>0.214</b> | <b>0.405</b> | <b>0.222</b> | <b>0.481</b> | <b>0.463</b> | <b>0.142</b> | <b>0.184</b> | <b>0.354</b> | <b>0.176</b> |
| Mosul Bank for Development and Investment | <b>0.812</b> | <b>0.729</b> | <b>0.579</b> | <b>0.518</b> | <b>1.399</b> | <b>0.743</b> | <b>0.876</b> | <b>1.143</b> | <b>0.678</b> | <b>0.193</b> | <b>0.767</b> | <b>0.332</b> |
| Commercial Bank of Iraq                   | <b>0.736</b> | <b>0.700</b> | <b>0.681</b> | <b>0.466</b> | <b>1.528</b> | <b>1.246</b> | <b>0.815</b> | <b>1.445</b> | <b>1.805</b> | <b>0.736</b> | <b>1.016</b> | <b>0.451</b> |

|   |               |               |               |               |               |               |               |               |               |              |               |              |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|--------------|
| Bank of Economy, Investment and Finance | <b>0.211</b>  | <b>0.180</b>  | <b>0.465</b>  | <b>0.245</b>  | <b>0.309</b>  | <b>0.299</b>  | <b>0.436</b>  | <b>0.499</b>  | <b>1.072</b>  | <b>0.075</b> | <b>0.379</b>  | <b>0.278</b> |
| mean                                    | <b>0.5151</b> | <b>0.5297</b> | <b>0.4833</b> | <b>0.4214</b> | <b>1.1488</b> | <b>0.4666</b> | <b>1.1139</b> | <b>0.9126</b> | <b>0.6379</b> | <b>0.308</b> | <b>0.6537</b> | <b>0.297</b> |

**Source:** Created by the investigator based on Excel

***Third: Analysis of The Ratio of Finance in Ordinary Shares***

Equity is a source of long-term finance, and equity is held by shareholders to establish their rights at the bank. Equity financing is more expensive than other sources of finance.

**Schedule (3):** Share financing ratio in banks Sample study

| Bank name                                 | 2010         | 2011         | 2012         | 2013         | 2014         | 2015         | 2016         | 2017         | 2018         | 2019         | mean         | S.D          |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Sumer Commercial Bank                     | <b>0.386</b> | <b>0.365</b> | <b>0.281</b> | <b>0.293</b> | <b>0.288</b> | <b>0.490</b> | <b>0.404</b> | <b>0.511</b> | <b>0.747</b> | <b>0.556</b> | <b>0.432</b> | <b>0.147</b> |
| Iraqi Credit Bank                         | <b>0.250</b> | <b>0.221</b> | <b>0.221</b> | <b>0.176</b> | <b>1.059</b> | <b>0.139</b> | <b>3.946</b> | <b>0.572</b> | <b>0.497</b> | <b>0.555</b> | <b>0.764</b> | <b>1.152</b> |
| Al Ahli Bank of Iraq                      | <b>0.225</b> | <b>0.273</b> | <b>0.108</b> | <b>0.104</b> | <b>0.645</b> | <b>0.169</b> | <b>1.473</b> | <b>0.657</b> | <b>0.439</b> | <b>0.553</b> | <b>0.465</b> | <b>0.413</b> |
| Middle East Bank                          | <b>0.621</b> | <b>0.556</b> | <b>0.103</b> | <b>0.174</b> | <b>0.474</b> | <b>0.137</b> | <b>0.744</b> | <b>0.522</b> | <b>0.271</b> | <b>0.233</b> | <b>0.384</b> | <b>0.227</b> |
| Al-Mansour Investment Bank                | <b>0.117</b> | <b>0.070</b> | <b>0.376</b> | <b>0.312</b> | <b>0.834</b> | <b>0.168</b> | <b>0.930</b> | <b>0.610</b> | <b>0.431</b> | <b>0.260</b> | <b>0.411</b> | <b>0.295</b> |
| Gulf Commercial Bank                      | <b>0.391</b> | <b>0.569</b> | <b>0.097</b> | <b>0.073</b> | <b>0.297</b> | <b>0.113</b> | <b>0.542</b> | <b>0.305</b> | <b>0.228</b> | <b>0.286</b> | <b>0.290</b> | <b>0.174</b> |
| Baghdad Bank                              | <b>0.180</b> | <b>0.177</b> | <b>0.063</b> | <b>0.088</b> | <b>0.187</b> | <b>0.134</b> | <b>0.297</b> | <b>0.263</b> | <b>0.189</b> | <b>0.192</b> | <b>0.177</b> | <b>0.071</b> |
| Mosul Bank for Development and Investment | <b>0.047</b> | <b>0.090</b> | <b>0.055</b> | <b>0.054</b> | <b>0.177</b> | <b>0.109</b> | <b>0.184</b> | <b>0.288</b> | <b>0.194</b> | <b>0.142</b> | <b>0.134</b> | <b>0.078</b> |
| Commercial Bank of Iraq                   | <b>0.167</b> | <b>0.160</b> | <b>0.152</b> | <b>0.086</b> | <b>0.202</b> | <b>0.160</b> | <b>0.184</b> | <b>0.313</b> | <b>0.366</b> | <b>0.137</b> | <b>0.193</b> | <b>0.084</b> |
| Bank of Economy,                          | <b>0.106</b> | <b>0.244</b> | <b>0.125</b> | <b>0.284</b> | <b>0.294</b> | <b>0.323</b> | <b>0.260</b> | <b>0.237</b> | <b>0.200</b> | <b>0.208</b> | <b>0.228</b> | <b>0.070</b> |

|                        |              |               |               |               |               |               |               |               |               |               |               |              |
|------------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| Investment and Finance |              |               |               |               |               |               |               |               |               |               |               |              |
| mean                   | <b>0.249</b> | <b>0.2725</b> | <b>0.1581</b> | <b>0.1644</b> | <b>0.4457</b> | <b>0.1942</b> | <b>0.8964</b> | <b>0.4278</b> | <b>0.3562</b> | <b>0.3122</b> | <b>0.3478</b> | <b>0.218</b> |

**Source:** Created by the investigator based on Excel

***Fourth: The Percentage of Financing by Retained Profits***

We note from table 4 that the average financing with retained profits of the banking sector reached 0.0378 with a standard deviation of 0.019. Other banks came in varying proportions.

**Schedule (4):** Percentage of funding by retained earnings at the banks sample study

| Bank name                                 | 2010         | 2011         | 2012         | 2013         | 2014         | 2015         | 2016         | 2017         | 2018         | 2019         | mean         | S.D          |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Sumer Commercial Bank                     | <b>0.001</b> | <b>0.005</b> | <b>0.006</b> | <b>0.007</b> | <b>0.015</b> | <b>0.052</b> | <b>0.023</b> | <b>0.036</b> | <b>0.024</b> | <b>0.018</b> | <b>0.019</b> | <b>0.016</b> |
| Iraqi Credit Bank                         | <b>0.017</b> | <b>0.021</b> | <b>0.027</b> | <b>0.043</b> | <b>0.132</b> | <b>0.027</b> | <b>0.196</b> | <b>0.118</b> | <b>0.088</b> | <b>0.005</b> | <b>0.067</b> | <b>0.063</b> |
| Al Ahli Bank of Iraq                      | <b>0.023</b> | <b>0.013</b> | <b>0.020</b> | <b>0.044</b> | <b>0.092</b> | <b>0.012</b> | <b>0.143</b> | <b>0.185</b> | <b>0.079</b> | <b>0.063</b> | <b>0.066</b> | <b>0.059</b> |
| Middle East Bank                          | <b>0.028</b> | <b>0.023</b> | <b>0.005</b> | <b>0.003</b> | <b>0.037</b> | <b>0.001</b> | <b>0.002</b> | <b>0.005</b> | <b>0.002</b> | <b>0.002</b> | <b>0.011</b> | <b>0.013</b> |
| Al-Mansour Investment Bank                | <b>0.021</b> | <b>0.004</b> | <b>0.082</b> | <b>0.051</b> | <b>0.051</b> | <b>0.013</b> | <b>0.139</b> | <b>0.087</b> | <b>0.018</b> | <b>0.013</b> | <b>0.048</b> | <b>0.043</b> |
| Gulf Commercial Bank                      | <b>0.023</b> | <b>0.415</b> | <b>0.003</b> | <b>0.009</b> | <b>0.003</b> | <b>0.002</b> | <b>0.013</b> | <b>0.042</b> | <b>0.020</b> | <b>0.008</b> | <b>0.054</b> | <b>0.128</b> |
| Baghdad Bank                              | <b>0.034</b> | <b>0.046</b> | <b>0.016</b> | <b>0.010</b> | <b>0.031</b> | <b>0.017</b> | <b>0.004</b> | <b>0.067</b> | <b>0.033</b> | <b>0.019</b> | <b>0.028</b> | <b>0.019</b> |
| Mosul Bank for Development and Investment | <b>0.026</b> | <b>0.013</b> | <b>0.021</b> | <b>0.017</b> | <b>0.035</b> | <b>0.014</b> | <b>0.032</b> | <b>0.044</b> | <b>0.026</b> | <b>0.002</b> | <b>0.023</b> | <b>0.012</b> |
| Commercial Bank of Iraq                   | <b>0.005</b> | <b>0.009</b> | <b>0.045</b> | <b>0.024</b> | <b>0.036</b> | <b>0.021</b> | <b>0.032</b> | <b>0.043</b> | <b>0.045</b> | <b>0.011</b> | <b>0.027</b> | <b>0.015</b> |

|   |               |               |               |               |               |               |               |               |               |               |               |              |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| Bank of Economy, Investment and Finance | <b>0.065</b>  | <b>0.024</b>  | <b>0.023</b>  | <b>0.027</b>  | <b>0.090</b>  | <b>0.042</b>  | <b>0.039</b>  | <b>0.010</b>  | <b>0.019</b>  | <b>0.005</b>  | <b>0.034</b>  | <b>0.026</b> |
| mean                                    | <b>0.0243</b> | <b>0.0573</b> | <b>0.0248</b> | <b>0.0235</b> | <b>0.0522</b> | <b>0.0201</b> | <b>0.0623</b> | <b>0.0637</b> | <b>0.0354</b> | <b>0.0146</b> | <b>0.0378</b> | <b>0.019</b> |

Source: Created by the investigator based on Excel

*Second: Financial Safety Indicators*

**Table (5):** Summary of the indicators of financial safety in banks Sample study

|  | <b>Capital adequacy</b> | <b>Quality of assets</b> | <b>Profitability index</b> | <b>Management integrity</b> | <b>Bank liquidity</b> | <b>Interest-rate risk</b> | <b>mean</b>  |
|--|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|---------------------------|--------------|
| <b>Sumer Commercial Bank</b>                 | <b>1.442</b>            | <b>0.812</b>             | <b>3.223</b>               | <b>2.020</b>                | <b>0.180</b>          | <b>1.638</b>              | <b>1.859</b> |
| <b>Iraqi Credit Bank</b>                     | <b>1.336</b>            | <b>0.966</b>             | <b>0.955</b>               | <b>0.415</b>                | <b>1.522</b>          | <b>1.667</b>              | <b>0.959</b> |
| <b>Al-Ahli Bank of Iraq</b>                  | <b>2.489</b>            | <b>0.888</b>             | <b>0.982</b>               | <b>2.172</b>                | <b>0.638</b>          | <b>1.398</b>              | <b>1.684</b> |
| <b>Middle East Bank</b>                      | <b>3.656</b>            | <b>0.915</b>             | <b>2.042</b>               | <b>1.277</b>                | <b>0.412</b>          | <b>0.946</b>              | <b>1.686</b> |
| <b>Al-Mansur Investment Bank</b>             | <b>2.604</b>            | <b>0.405</b>             | <b>0.898</b>               | <b>0.316</b>                | <b>1.962</b>          | <b>1.816</b>              | <b>1.059</b> |
| <b>Gulf Commercial Bank</b>                  | <b>1.438</b>            | <b>1.338</b>             | <b>1.321</b>               | <b>0.357</b>                | <b>2.604</b>          | <b>1.971</b>              | <b>1.130</b> |
| <b>Baghdad Bank</b>                          | <b>2.012</b>            | <b>0.867</b>             | <b>1.014</b>               | <b>0.736</b>                | <b>0.582</b>          | <b>0.829</b>              | <b>1.032</b> |
| <b>Mosul Development and Investment Bank</b> | <b>1.645</b>            | <b>0.630</b>             | <b>2.222</b>               | <b>0.472</b>                | <b>0.997</b>          | <b>1.102</b>              | <b>1.091</b> |
| <b>Commercial Bank of Iraq</b>               | <b>1.530</b>            | <b>0.558</b>             | <b>1.573</b>               | <b>0.583</b>                | <b>0.883</b>          | <b>0.689</b>              | <b>0.919</b> |
| <b>Economy, Investment and Finance Bank</b>  | <b>1.891</b>            | <b>0.779</b>             | <b>1.279</b>               | <b>1.277</b>                | <b>2.085</b>          | <b>1.453</b>              | <b>1.326</b> |
| <b>mean</b>                                  | <b>2.004</b>            | <b>0.8158</b>            | <b>1.5509</b>              | <b>0.9625</b>               | <b>1.1865</b>         | <b>1.3509</b>             | <b>1.274</b> |

Source: Prepared by the researcher

### *Third: - Test Study Hypotheses*

This lab reviews the researcher's most important findings by analyzing correlation and decline relationships of study variables and testing hypotheses by using a variety of statistical methods such as Pearson's To measure the degree of correlation between variables with normal distribution and to use simple linear regression to measure the impact relationships between the main study variables between the independent variable (sources of finance) and the dependent variable (financial safety). The  $R^2$  coefficient of determination (interpretation), which shows how much changes the dependent variable interprets, is used as well as the F-value calculated for the regression coefficient to show the significance of the regression coefficient.

### **EFFECT HYPOTHESES**

**Second Main hypothesis: There is no significant effect between sources of finance and financial safety**, from which the following sub-assumptions are subsued: -

#### *The First Sub-Hypothesis: There Is No Significant Effect Between Ownership Financing and Financial Safety*

The results of Table 7 show that there is no moral effect of the sources of ownership finance on financial safety, pointing out that the sources of ownership finance have contributed to explaining **the amount of** financial safety (0.098) as shown by the estimated regression equation ( **$Y=1.018+0.612$** ) of changes in financial safety. The lack of a moral effect of the regression equation of the sources of ownership finance on financial viability is due to the fact that the calculated F value (**0.873**) is less than the tabular F value (**3.18**) to show acceptance of the non-existence hypothesis, and the rejection of the alternative hypothesis of its meaning (There is a moral impact between ownership financing ratio on financial soundness).

#### *4- The Fourth Sub-Hypothesis: There Is No Meaningful Correlation Between Financing, Retained Profits and Financial Safety.*

The correlation coefficient (-0.252) has reached the level of morale ( $.482=\alpha$ ). Consequently, the decision accepted the non-existence proposition, i.e. the absence of a relation between ordinary shares and financial safety within the limits of the study.

**Table (6):** correlation coefficients matrix between study variables

|  |                     | Sources of funding | Financial safety | Property Finance | Deposit financing | Equity financing | Withheld profit financing |
|--|---------------------|--------------------|------------------|------------------|-------------------|------------------|---------------------------|
| <b>Sources of funding</b>                                    | Pearson Correlation | 1                  | -.119-           | .735*            | .825**            | .826**           | .710*                     |
|  | Sig. (2-tailed)     |                    | .743             | .016             | .003              | .003             | .021                      |
|  | N                   | 10                 | 10               | 10               | 10                | 10               | 10                        |
| <b>Financial safety</b>                                      | Pearson Correlation | -.119-             | 1                | .314             | -.418-            | .181             | -.252-                    |
|  | Sig. (2-tailed)     | .743               |                  | .378             | .229              | .617             | .482                      |
|  | N                   | 10                 | 10               | 10               | 10                | 10               | 10                        |
| <b>Property Finance</b>                                      | Pearson Correlation | .735*              | .314             | 1                | .246              | .893**           | .512                      |
|  | Sig. (2-tailed)     | .016               | .378             |                  | .494              | .000             | .130                      |
|  | N                   | 10                 | 10               | 10               | 10                | 10               | 10                        |
| <b>Deposit financing</b>                                     | Pearson Correlation | .825**             | -.418-           | .246             | 1                 | .387             | .565                      |
|  | Sig. (2-tailed)     | .003               | .029             | .494             |                   | .269             | .088                      |
|  | N                   | 10                 | 10               | 10               | 10                | 10               | 10                        |
| <b>Equity financing</b>                                      | Pearson Correlation | .826**             | .181             | .893**           | .387              | 1                | .586                      |
|  | Sig. (2-tailed)     | .003               | .617             | .000             | .269              |                  | .075                      |
|  | N                   | 10                 | 10               | 10               | 10                | 10               | 10                        |
| <b>Withheld profit financing</b>                             | Pearson Correlation | .710*              | -.252-           | .512             | .565              | .586             | 1                         |
|  | Sig. (2-tailed)     | .021               | .482             | .130             | .088              | .075             |                           |
|  | N                   | 10                 | 10               | 10               | 10                | 10               | 10                        |
| *. Correlation is significant at the 0.05 level (2-tailed).  |                     |                    |                  |                  |                   |                  |                           |
| **. Correlation is significant at the 0.01 level (2-tailed). |                     |                    |                  |                  |                   |                  |                           |

*Based On the Above, The Results Show That the First Sub-Hypothesis Is Valid (There Is No Significant Effect Between Proprietary Financing and Financial Safety).*

*The Second Sub-Hypothesis: There Is No Significant Effect Between Deposit Financing and Financial Safety.*

Table 7 shows the moral effect of the ratio of deposit financing on financial safety and that the estimated regression equation was  $(Y=1.526-0.385)$  and

explains **(0.175)** the nature of the relationship between X and Y that is **(0.175)** of changes in financial safety resulting from a change in the ratio of deposit financing. The calculated F value for the simple regression model was **(4.969)**, which is less than the tabular F value of 3.18, and therefore the decision is to reject the non-existence hypothesis and accept the alternative hypothesis of a moral effect between the deposit financing ratio and financial safety.

***Third Sub-Hypothesis: There Is No Significant Effect Between Equity Financing and Financial Safety.***

The results of Table 7 show that there is no moral effect of the sources of finance in the common shares on financial safety, pointing out that the sources of finance in the common shares contributed to explaining the amount of (0.033) of financial safety, which was shown by the estimated regression equation ( $Y=1.159+0.333$ ) of the changes in financial safety. He noted that there was no moral effect of the regression equation of the sources of equity financing in financial safety because this is due to the fact that the calculated F value of **0.271** is less than the tabular F value of **3.18** to show acceptance of the non-existence hypothesis, and rejection of the alternative hypothesis of its effect (There is a moral impact between ownership financing ratio on financial soundness).

***Based On the Above, The Results Show That the First Sub-Hypothesis Is Valid (There Is No Significant Effect Between Equity Financing and Financial Safety).***

***4- The Fourth Sub-Hypothesis: There Is No Significant Effect Between Financing with Retained Profits and Financial Safety.***

The results of Table 7 show that there is no moral effect of the sources of finance with retained profits on financial safety, pointing out that the sources of finance contributed to the retained profits by explaining **the amount of 0.064** of financial safety, which was shown by the estimated decline equation ( $Y=1.440-4.384$ ) of the changes in financial safety. He stated that there was no moral effect of equating the decline to sources of finance with retained earnings in financial safety because this was due to the fact that the calculated F value of **0.544** is less than the tabular F value of **3.18** to show acceptance of the non-existence hypothesis and rejection of the alternative hypothesis of its effect (A moral impact between the retained earnings ratio on financial soundness).

***Based On the Above, The Results Show That the First Sub-Hypothesis Is Valid (There Is No Significant Effect Between Retained Earnings Funding and Financial Viability).***

**Table (7):** The consequences of funding sources' influence relationships on financial viability

| Sources of funding        | Regression equation | R <sup>2</sup> | Calculated F value | The tabular value of F | Sig.  |
|---------------------------|---------------------|----------------|--------------------|------------------------|-------|
| Property Finance          | Y= 1.018+0.612      | 0.098          | 0.873              | 3.18                   | 0.378 |
| Deposit financing         | Y= 1.526-0.385      | 0.175          | 4.969              |                        | 0.029 |
| Equity financing          | Y= 1.159+0.333      | 0.033          | 0.271              |                        | 0.617 |
| Withheld profit financing | Y= 1.440-4.384      | 0.064          | 0.544              |                        | 0.482 |

## CONCLUSIONS AND RECOMMENDATIONS

### *First: Conclusions*

In this paragraph, a set of conclusions reached by the researcher will be presented through the practical framework of the study in the light of the results achieved through the analysis of data and information according to the statistical methods used, and these conclusions can be summarized in the following points:

1-the needs of the banks under study for the funds have declined due to the fact that most banks maintain surplus cash liquidity due to the conservative investment policy adopted by the banks, which is due to the political, economic and security conditions of the country, as they maintain high cash liquidity inside banks.

The results of the financial analysis showed that there is a discrepancy in the sources of finance in the Iraqi commercial banks, the sample study from one bank to another and from year to year, which indicates that there are no fixed or uniform rules for determining the sources of finance.

The results of the financial analysis showed that in recent years, Mosul Bank for Development and Investment has suffered from weak sources of property financing, i.e. increased exposure to liquidity risks and hence the possibility of failure or bankruptcy.

The Iraqi commercial banks, the sample of the study, relied on various sources of financing, as it was noted that in the last years some of the sample banks have decreased their dependence on property financing and increased reliance on deposit financing, meaning that there is no clear policy and the continuation of their basic banking operations.

### ***Second: Recommendations***

1-to face the challenges imposed on its financial system, especially the banking system, we must think about the ways and mechanisms to strengthen the position of banks, strengthen their financial positions, and enhance their competitiveness through strengthening their capital and turning them into comprehensive banks that provide all services, especially all the funds that have been created. This is to diversify its investment strategy on the one hand and meet its financial needs for economic institutions on the other hand.

2- the need for the management of banks to pay attention to the relationship between the sources of finance and the financial safety of the bank through the banks administration measuring the sources of finance for banks and determining the bank's needs for funds.

3- the study recommends that the bank adopt a policy to invest its surplus funds through the management of bank liquidity in a way that helps it achieve profits from these invested funds. That is, encouraging banks to find new mechanisms and sound ways to make better use of their available deposits in order to achieve profits.

4- banks management should address the weak sources of finance through borrowing from the financial market or through diversification of sources of finance, as in the Mosul Development and Investment Bank, where the weak sources of finance have appeared in recent years

### **REFERENCES**

- Abor, J., & Biekpe, N. (2006). Small business financing initiatives in Ghana. *Problems and Perspectives in Management*, 4(3), 69-77.
- Ali, M.R., Rahman, M.M. & Mahmud M.S. (2013). Financial Soundness of the Textile Industry : Altman Z-score Measurement, *Journal of Science and Technology*,(14):7-18
- Al-Ubeidi, Mohamed Awad, Al-Bashir, Ibrahim Fadl Al-Mawla, and Musharaf. I am not a good one. (2018).( the role of Central banks in maintaining Financial Stability and Financial Safety, PhD thesis, Sudan University of Science and Technology.
- Andaleeb, U., & Singh, S. D. (2016). A study of Financing Sources for Start-up Companies in India. *International Review of Business and Finance*, 8, 1-4
- Atun, R., Knaul, F. M., Akachi, Y., & Frenk, J. (2012). Innovative financing for health: what is truly innovative?. *The Lancet*, 380(9858), 2044-2049.
- Atun, R., Knaul, F. M., Akachi, Y., & Frenk, J. (2012). Innovative financing for health: what is truly innovative?. *The Lancet*, 380(9858), 2044-2049.
- Aweke. Melako& . Melaku Alemu , (2017). " Financial Pereormance Analysis of Private Commercial Banks of Ethiopia: Camelratings" *International Journal of Scientific and Research Publications*, Volume 7
- Beck, T., Demirgüç-Kunt, A., & Maksimovic, V. (2008). Financing patterns around the world: Are small firms different?. *Journal of financial economics*, 89(3), 467-487.

- Bitar, M., Hassan, M. K., & Walker, T. (2017). Political systems and the financial soundness of Islamic banks. *Journal of Financial Stability*, 31, 18-44.
- CHIHI, S., & KHALIL, A. (2020). Do board characteristics affect the financial soundness of Islamic banks. *African Scientific Journal*, 3(2), 096-096.
- Coutinho, B. (2010). Sources of local government financing. *Local government reform in Zimbabwe*, 71.
- Dorina, clichici & Corina, Gribincea (2015). Implications of the financial crisis. *International Journal of Finance* ,10:88-109
- Girishankar, N. (2009). Innovating development finance-from financing sources to financial solutions. *World Bank Policy Research Working Paper*, (5111).
- Hale, G., & Long, C. (2011). What are the sources of financing for Chinese firms?. *Emerald Group Publishing Limited*.
- Khalil, A., & Slimene, I. B. (2021). Financial soundness of Islamic banks: does the structure of the board of directors matter?. *Corporate Governance: The International Journal of Business in Society*.
- Lawal, T. T. (2019). Influence of bank financial soundness on the operational efficiency of deposit money banks in Nigeria (Doctoral dissertation, JKUAT-COHRED).
- Van-Thep, N., & Day-Yang, L. (2019). Determinants of financial soundness of commercial banks: Evidence from Vietnam. *Journal of Applied Finance and Banking*, 9(3), 35-63.