



جامعة الإمام عبد الرحمن بن فيصل  
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

College of Science and Humanities  
Computer Department  
Practical CO-OP Training





# COOP Presentation

## (2023)



**Presented by:** khaowlah mohammed zakariya

**Academic Supervisor:** Dr.Thowayba Alowad

**Onsite Supervisor:** ENG.Hussain Al-Qattan

**Training at:** Qatif municipality's

**Student ID:** 2200002105

**Department:** Computer Science

# Agenda



- 1. Introduction to Training Environment**
- 2. Task 01: Installing the software and network configuration**
- 3. Task 02: Writing SQL Queries**
- 4. Task 03: Writing Procedural Language for SQL**
- 5. Task 04: COOP Project**
- 6. Challenges**
- 7. Lesson Learned**
- 8. Academic Courses support you during training**
- 9. Suggestions**
- 10. Self-Evaluation and Reasoning**

# Introduction to Training Environment

The training environment in the Qatif Municipality helped me get acquainted with the work environment outside the scope of academic study and develop the skills I possess.



# Task 01: Installing the software and network configuration

## Task Description

Installing the required software to use as an Oracle Developer.

1

## Task Process

Installed four programs:  
SQL plus-Toad for oracle-  
Form builder - Report  
builder

3

## Tools Applied

Some videos  
Tutorial provided by the training provider

2



TOAD



Toad® For Oracle



## Task 02: Writing SQL Queries

## Task Description

# Discussions about database queries and exercises

1

2

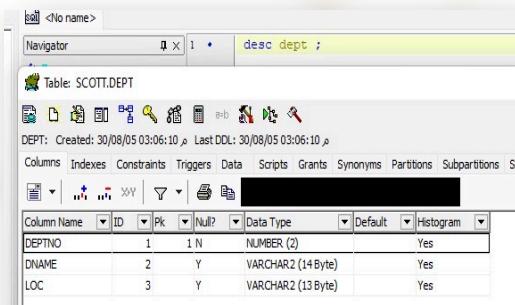
## Tools Applied

- Toad for oracle
  - Tutorial provided by the training provider

## Task Process

## Do all tasks on time

3



```
1 • ┌ SELECT INITCAP (ename) AS EMP_NAME,
2   LENGTH (ename) AS "NUMBER",
3   SUBSTR (ename, 0, 4) AS Section
4   FROM emp; ┘
```

Data Grid

The screenshot shows a query editor window with the following content:

```
1 • ┌ SELECT INITCAP (ename) AS EMP_NAME,
2   LENGTH (ename) AS "NUMBER",
3   SUBSTR (ename, 0, 4) AS Section
4   FROM emp; ┘
```

Below the query editor is a "Data Grid" window displaying the results of the query. The grid has three columns: EMP\_NAME, NUMBER, and SECTION. The data is as follows:

EMP_NAME	NUMBER	SECTION
Ali	3	Ali
Smith	5	SMIT
Allen	5	ALLE
Ward	4	WARD
Jones	5	JONE
Martin	6	MART
Blake	5	BLAK
Clark	5	CLAR
Scott	5	SCOT
King	4	KING
Turner	6	TURN
Adams	5	ADAM
James	5	JAME

```
sql <No name>
1 ► SELECT MAX (sal) AS MAXIMUM,
2      MIN (sal) AS MINIMUM,
3      SUM (sal) AS SUM,
4      ROUND (AVG (sal)) AS AVERAGE
5      FROM emp;
6
7
```

## Task 03: Writing Procedural Language for SQL

## Task Description

Learn about the programming language for creating and designing the Oracle system and performing tasks and exercises

## Task Process

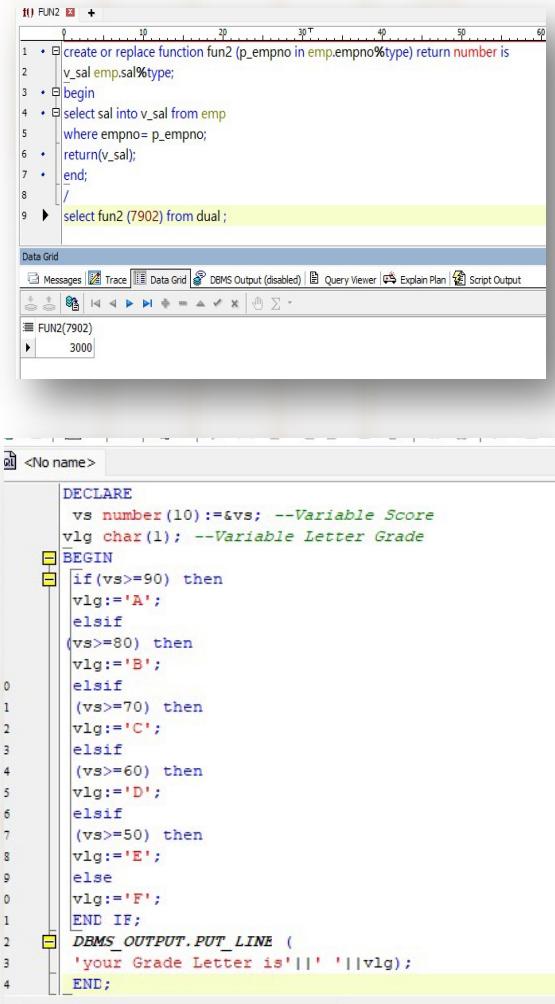
## Do all tasks on time

1

## Tools Applied

- Toad for oracle
  - Tutorial provided by the training provider
  - Oracle Form Builder

3



# Task 04: COOP Project

## Task Description

At the end of the training period, we designed a project using the database for the inventory accounting system through an Oracle developer

1

## Task Process

- 1- Create a new user account
- 2- Create four basic tables
- 3- Create forms for screens
- 4- Create reports

2

## Tools Applied

- Toad for oracle
- Oracle Form Builder
- Oracle Report Builder

3

# Task 04: COOP Project

1- Create a new user account

```
SQL>
SQL> create user projectkhaowlah identified by khaowlah;
```

```
SQL> show user
USER is "SYSTEM"
SQL> conn projectkhaowlah
Enter password: *****
Connected.
```

# Task 04: COOP Project

2- Create four basic tables

## A- STOCK:

Column Name	Data Type	Size	Notes
Itno	Number	4	Primary Key
It-desc	Varchar2	20	Not null
Qty-on-Hand	Number	4	Always Positive
In-Date	date		
S-price	Number	10.2	Always < S-price
Cost	Number	10.2	

## B- CUSTOMER:

Column Name	Data Type	Size	Notes
Cno	Number	4	Primary Key
Cname	Varchar2	20	
Address	Varchar2	50	
Email	Varchar2	50	Check @

## C- ORDER:

Column Name	Data Type	Size	Notes
Ono	Number	4	Primary Key
Odate	Date	20	
Cno			Referencing To Customer

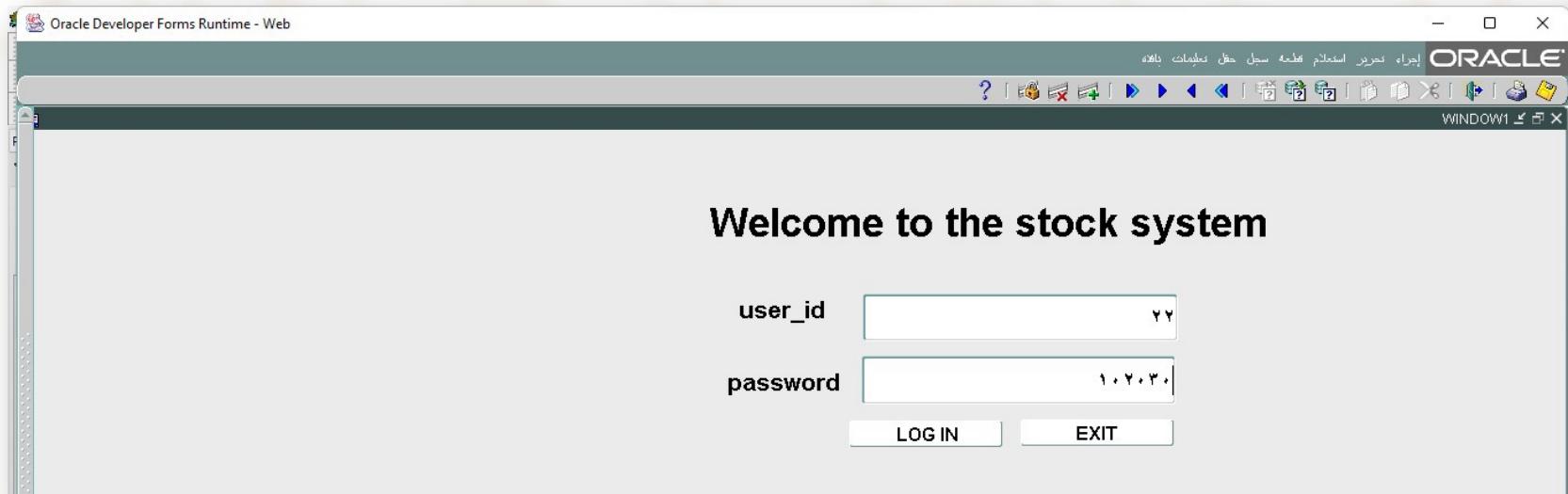
## D- Order-Details:

Column Name	Data Type	Size	Notes
Itno	Number	4	Referencing To Stock
Ono	Number	4	Referencing To Order
O-QTY	Number	4	Check

# Task 04: COOP Project

## 3- Create forms for screens

- ✓ Log in screen
- What will happen if the password and the user are correct?



The screenshot shows a table component with columns "USER\_ID", "USER\_NAME", and "PASSWOED". Two rows are visible: one for "mohammed" with ID 22 and another for "khaowlah" with ID 2200002105. The "CUSTOMER" table is also listed in the sidebar.

	USER_ID	USER_NAME	PASSWOED
▶	22	mohammed	102030
	2200002105	khaowlah	102030

# Task 04: COOP Project

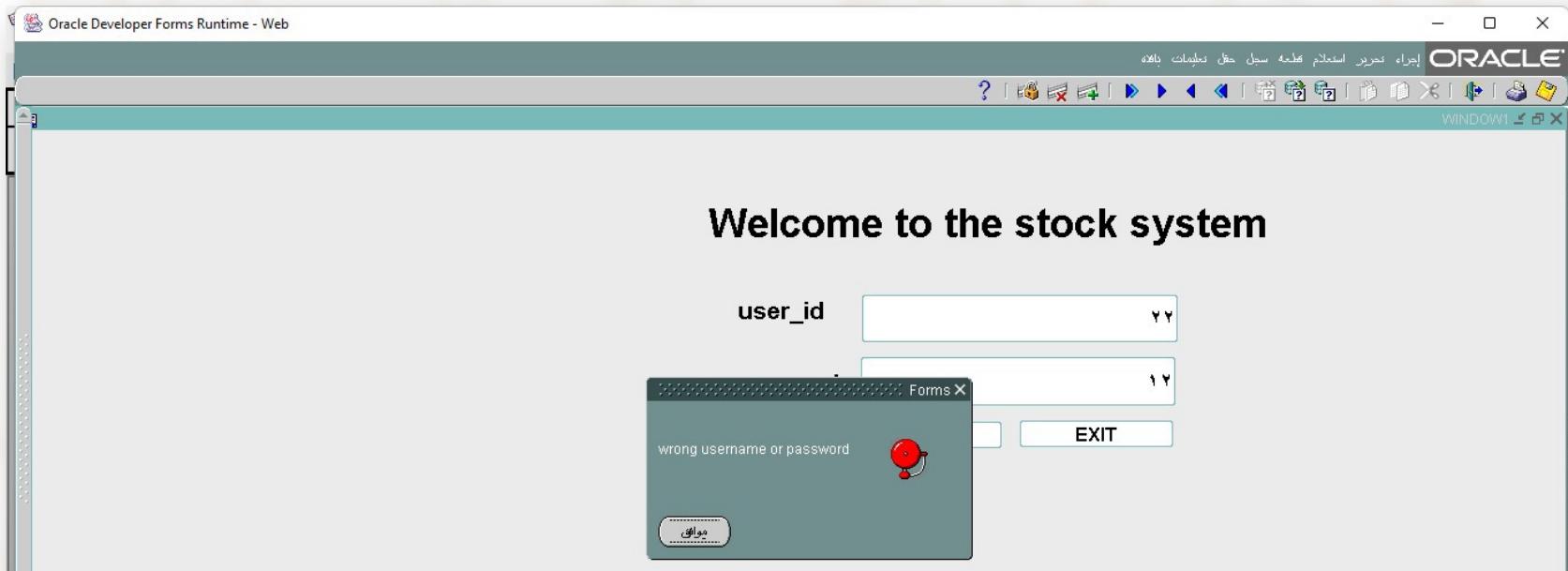
## 3- Create forms for screens

### ✓ home screen



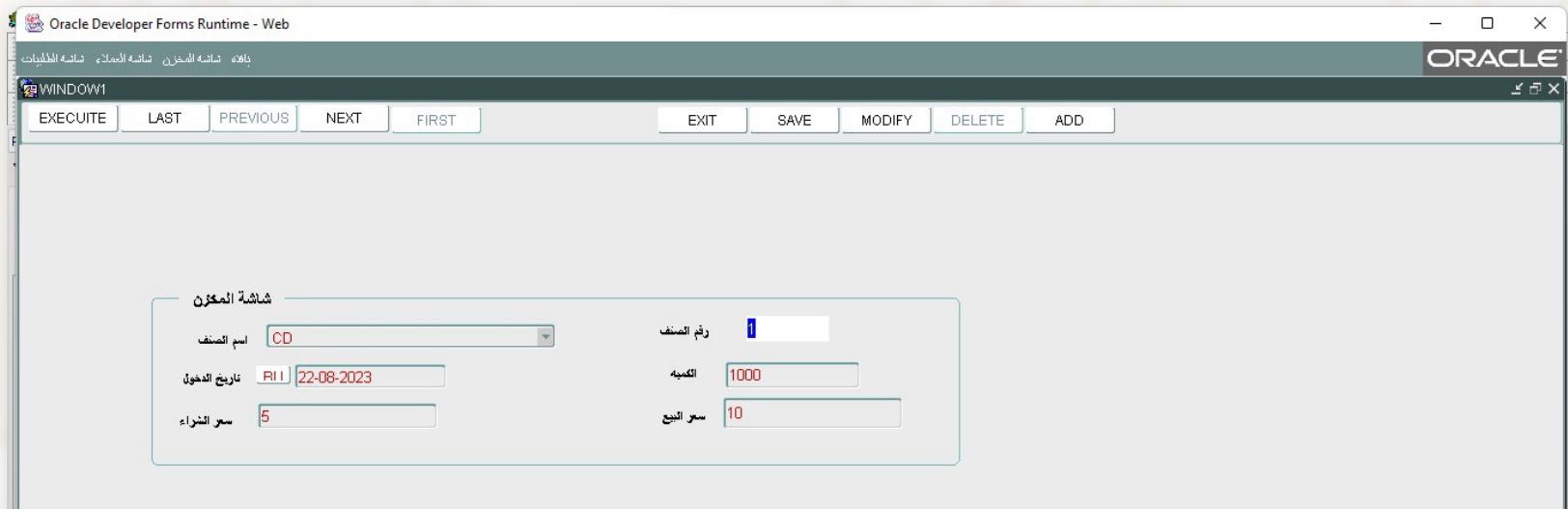
# Task 04: COOP Project

- ✓ Log in screen
- What will happen if the password and username are incorrect?



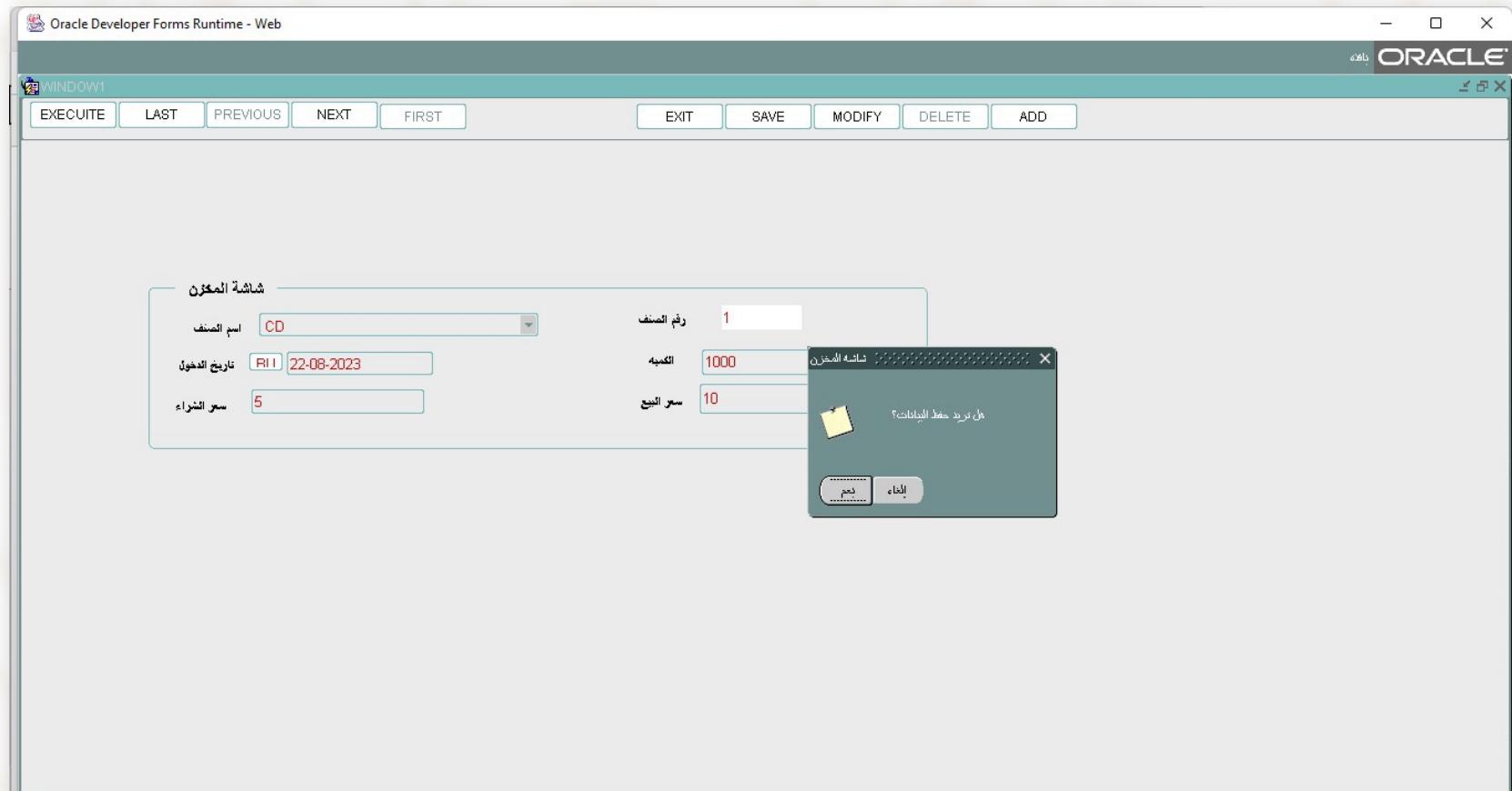
# Task 04: COOP Project

## ✓ Stock screen



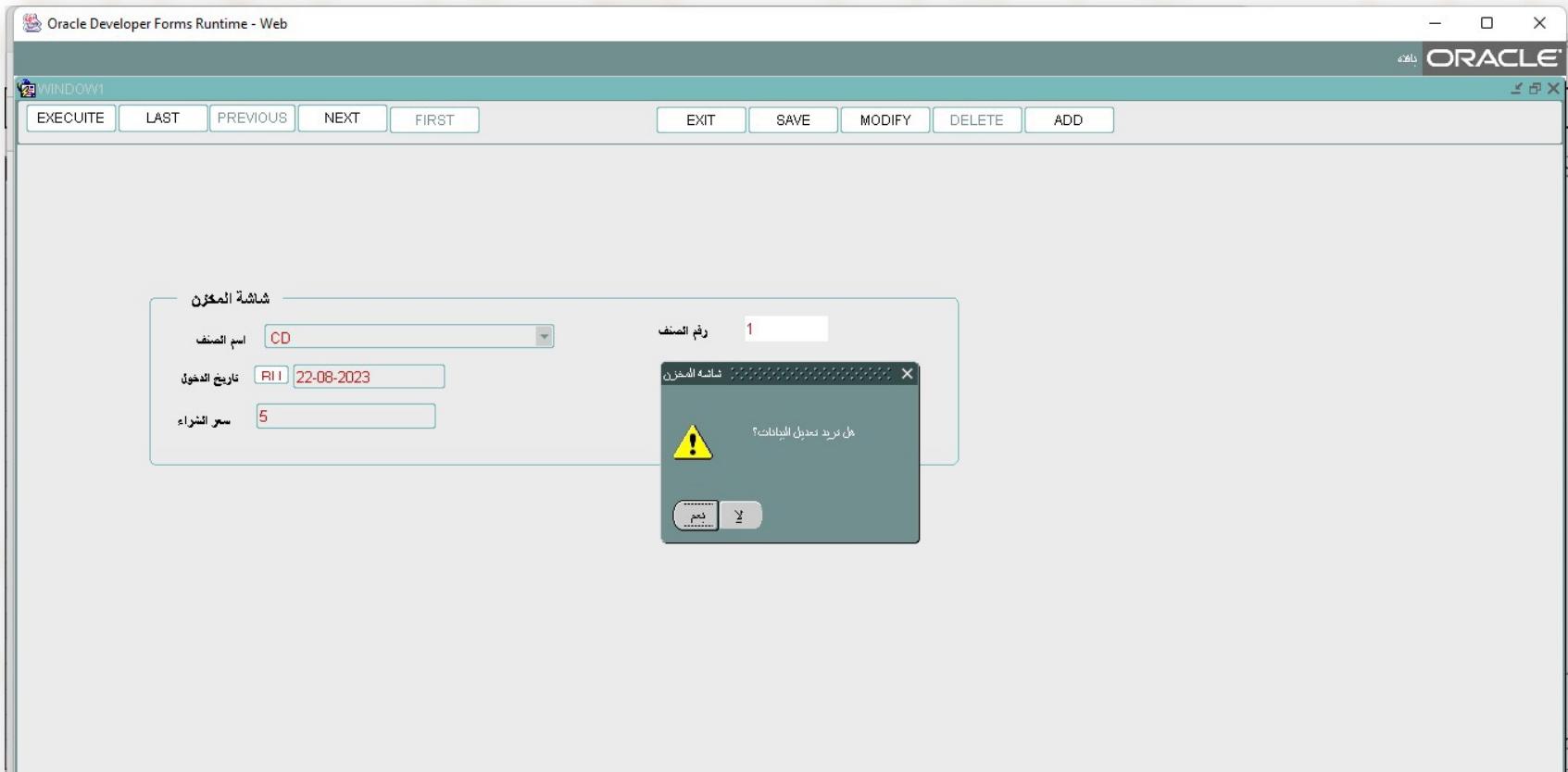
# Task 04: COOP Project

## ✓ Stock screen



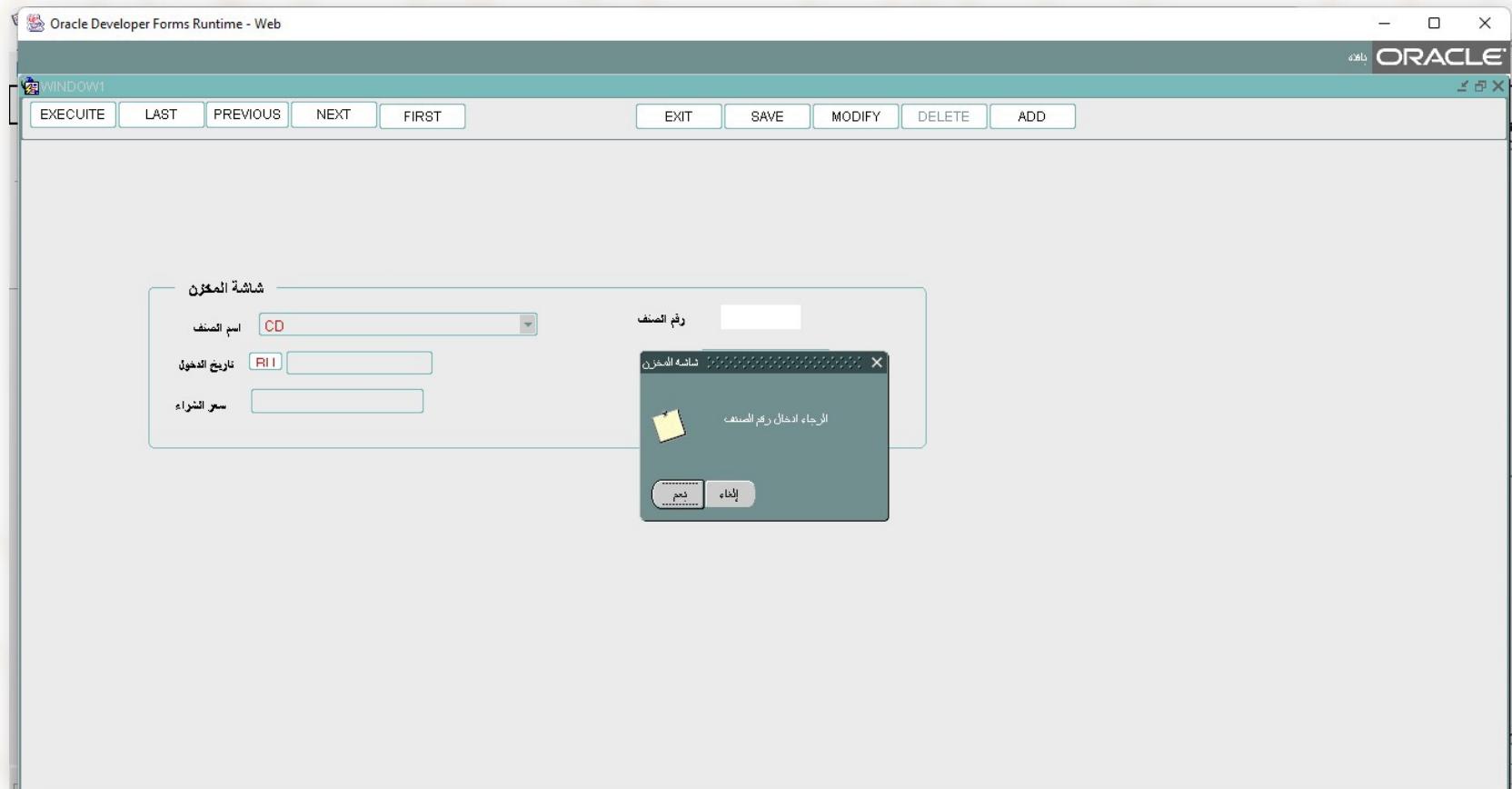
# Task 04: COOP Project

## ✓ Stock screen



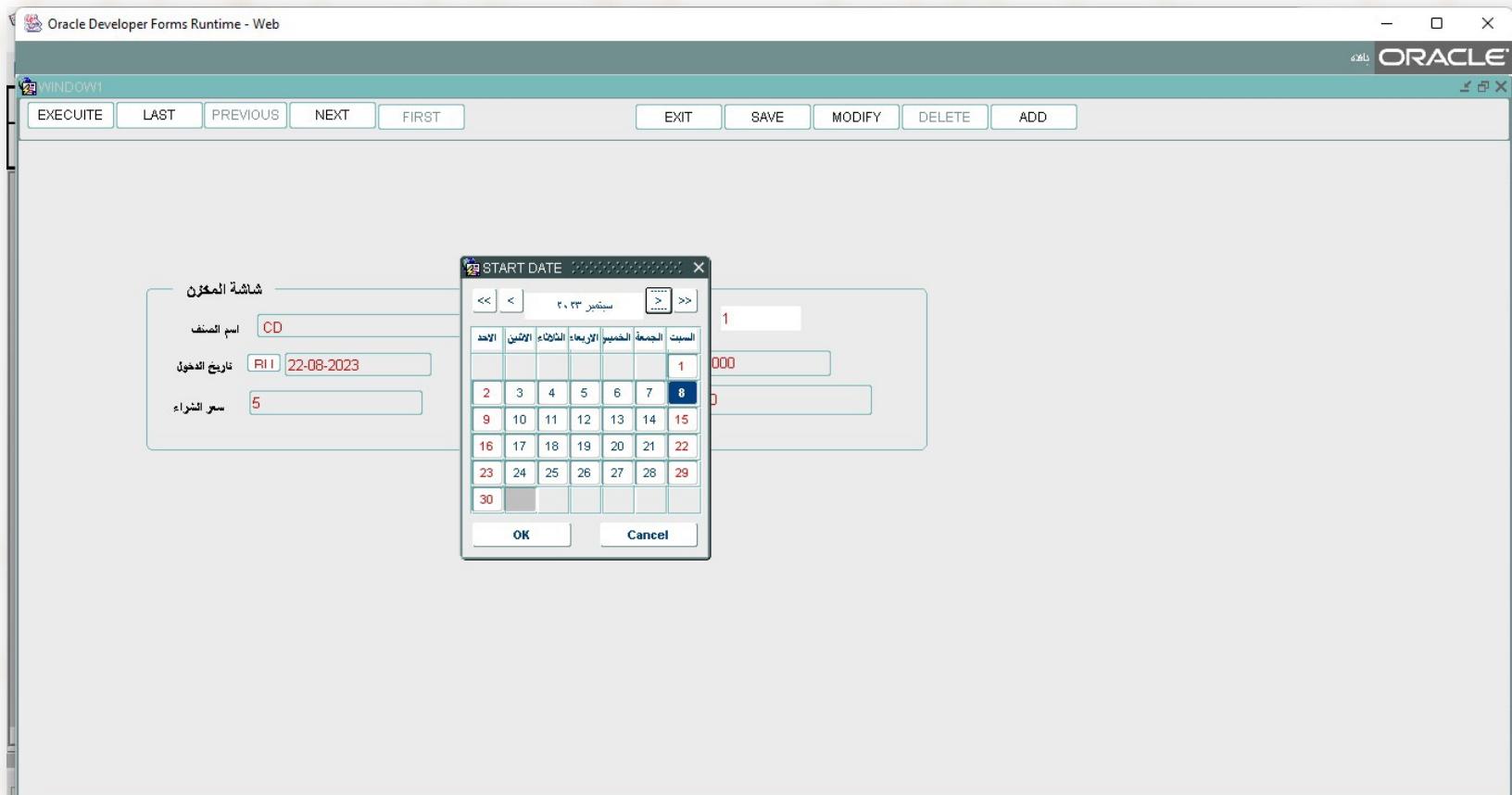
# Task 04: COOP Project

## ✓ Stock screen



# Task 04: COOP Project

## ✓ Stock screen



# Task 04: COOP Project

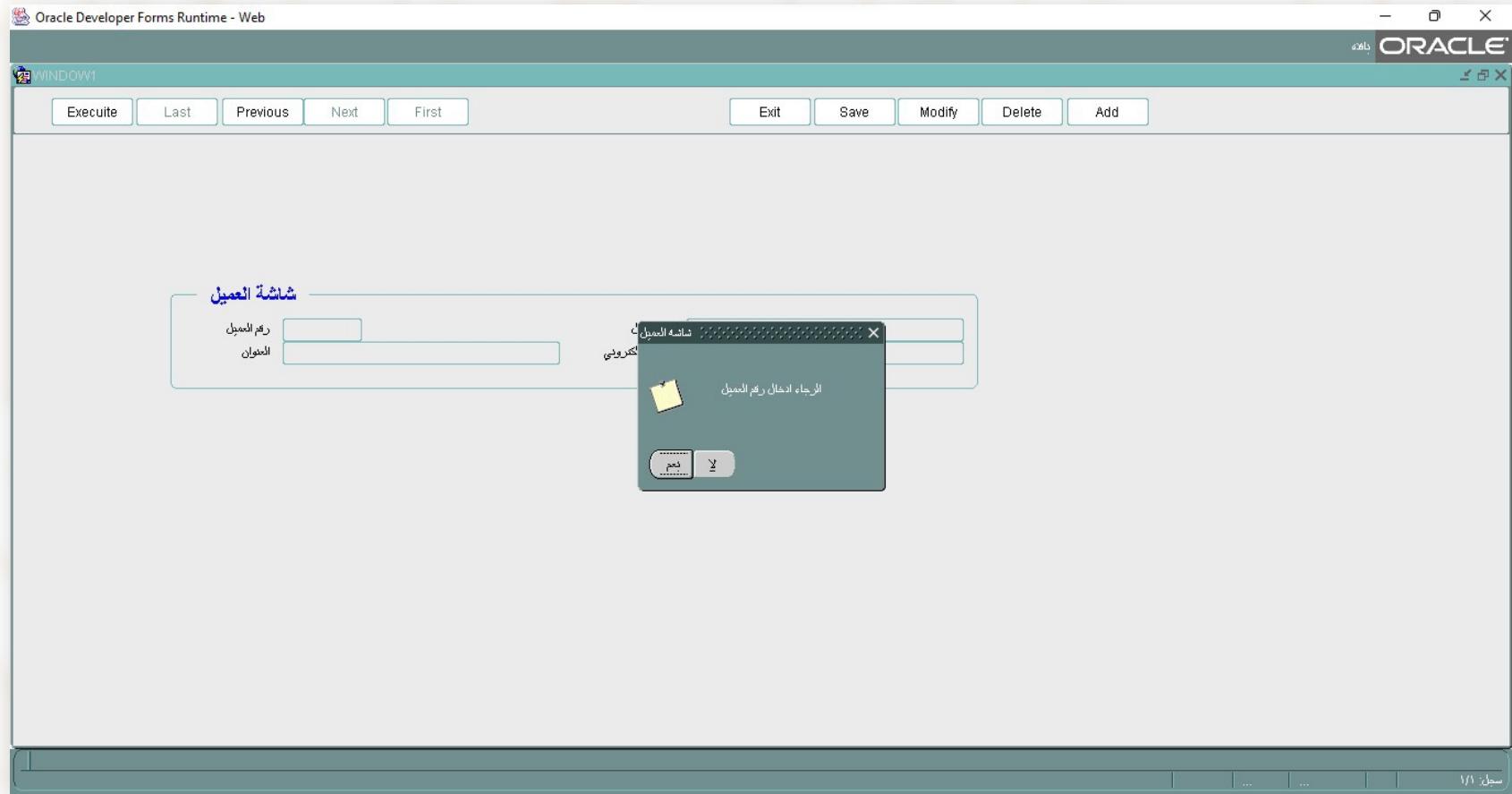
## ✓ Customer screen

The screenshot shows a window titled "Oracle Developer Forms Runtime - Web" with the sub-title "شاشة المخزن". The window has a toolbar with buttons for Execute, Last, Previous, Next, First, Exit, Save, Modify, Delete, and Add. Below the toolbar is a section labeled "شاشة العميل" (Customer Screen) containing four input fields:

- رقم العميل (Customer ID): An input field containing the value "1".
- النوع (Type): A dropdown menu currently set to "العميل" (Customer).
- اسم العميل (Customer Name): An input field containing "khaowlah".
- البريد الإلكتروني (Email Address): An input field containing "khaowlah@gmail.com".

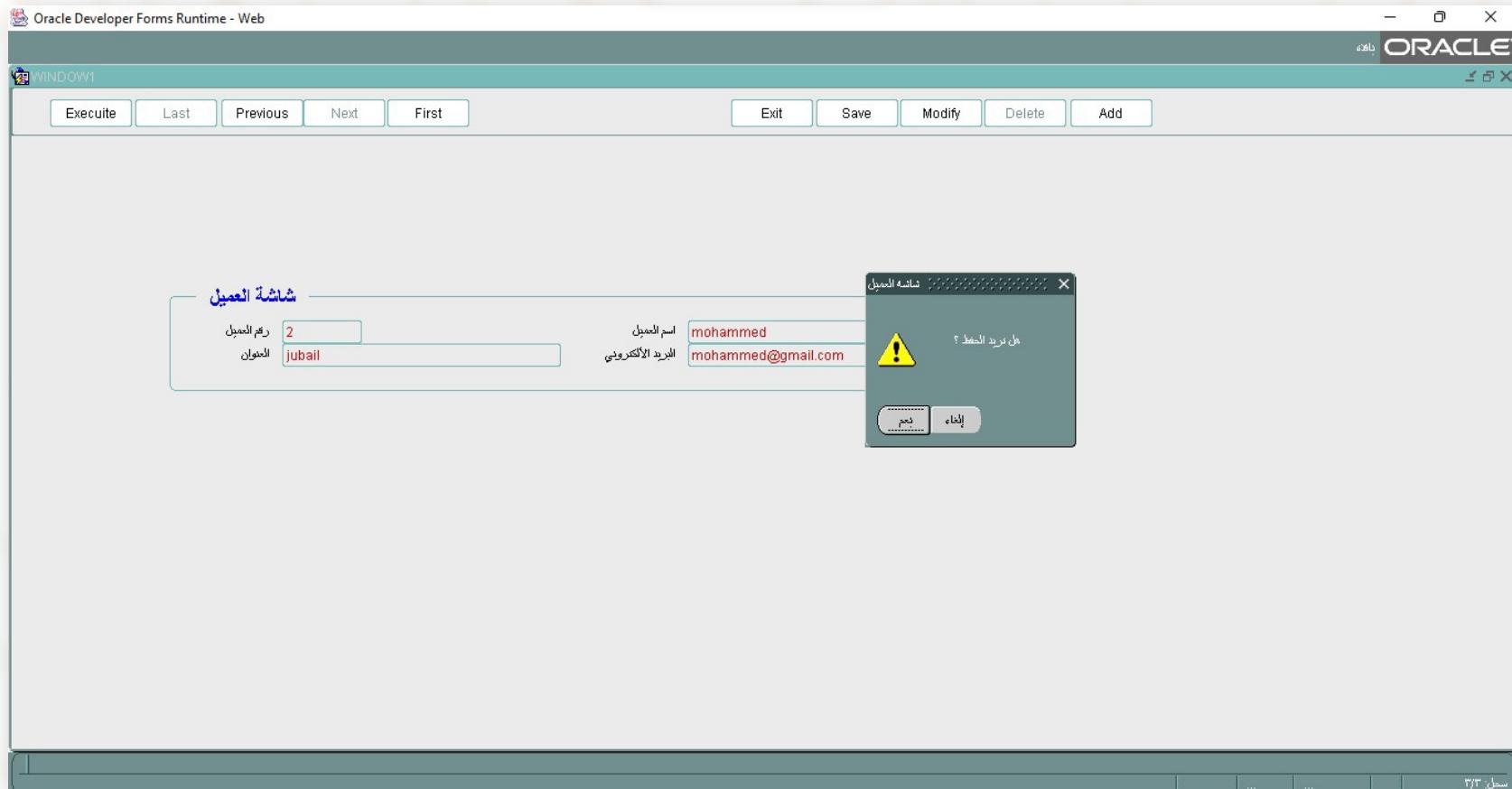
# Task 04: COOP Project

## ✓ Customer screen



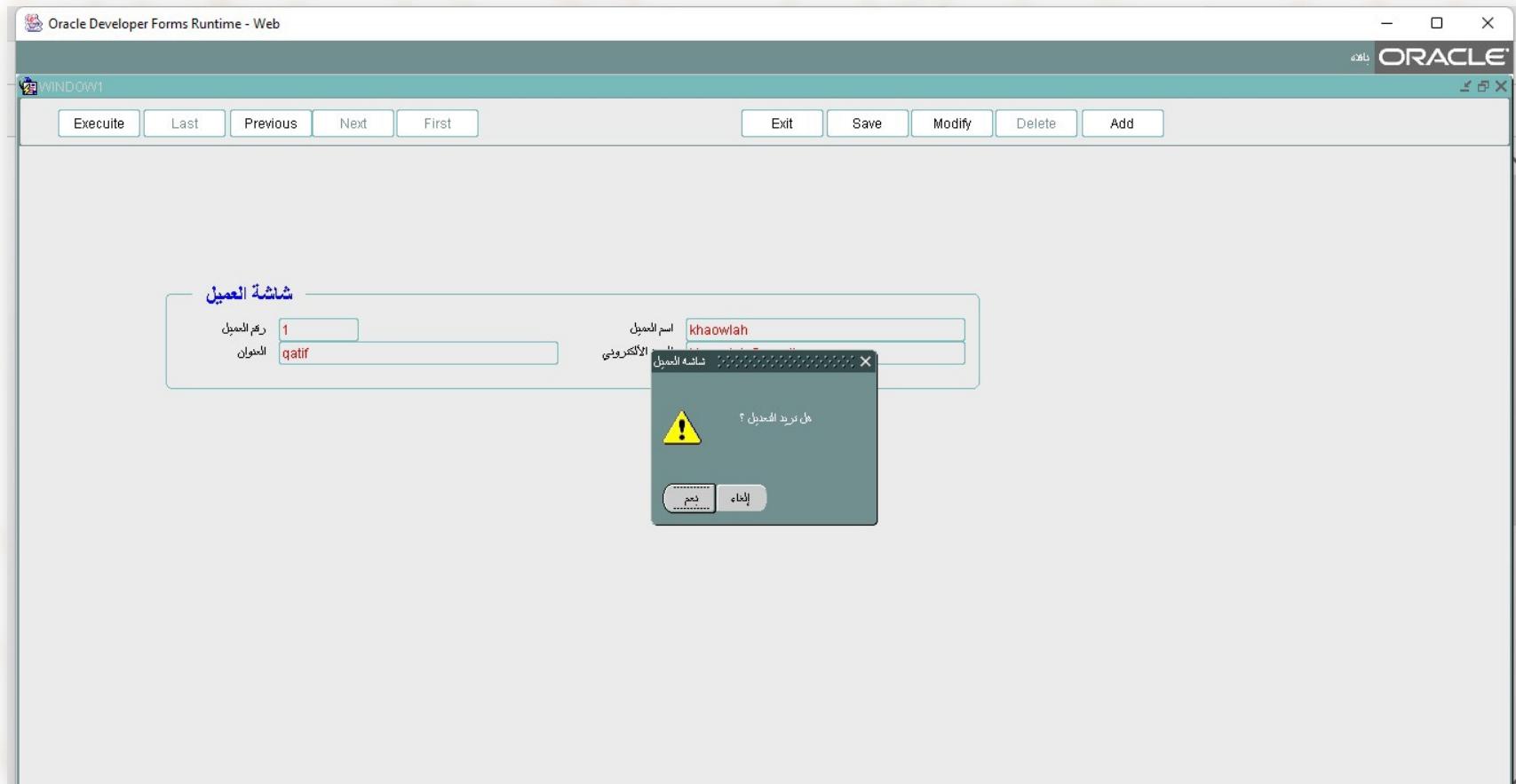
# Task 04: COOP Project

## ✓ Customer screen



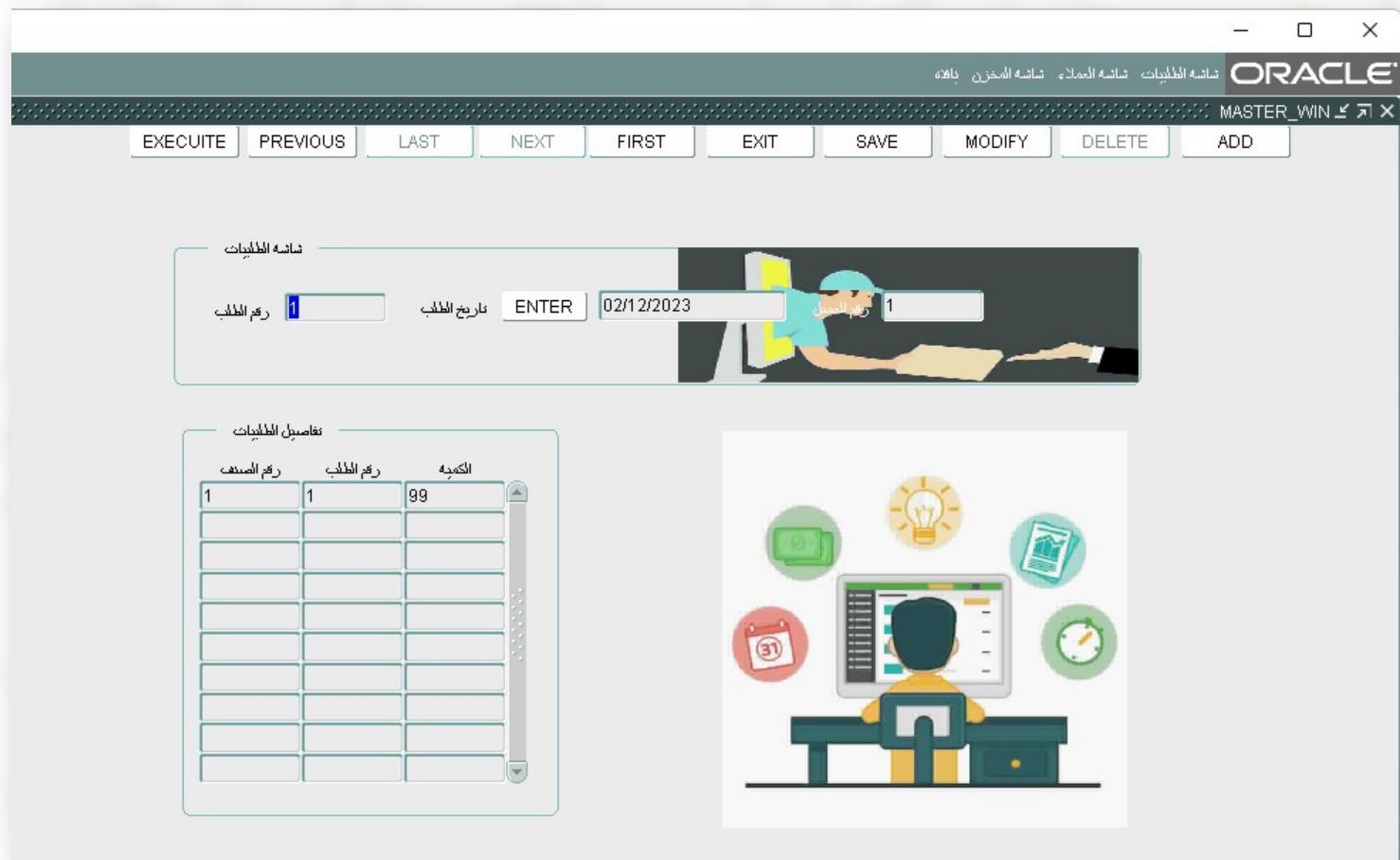
# Task 04: COOP Project

## ✓ Customer screen



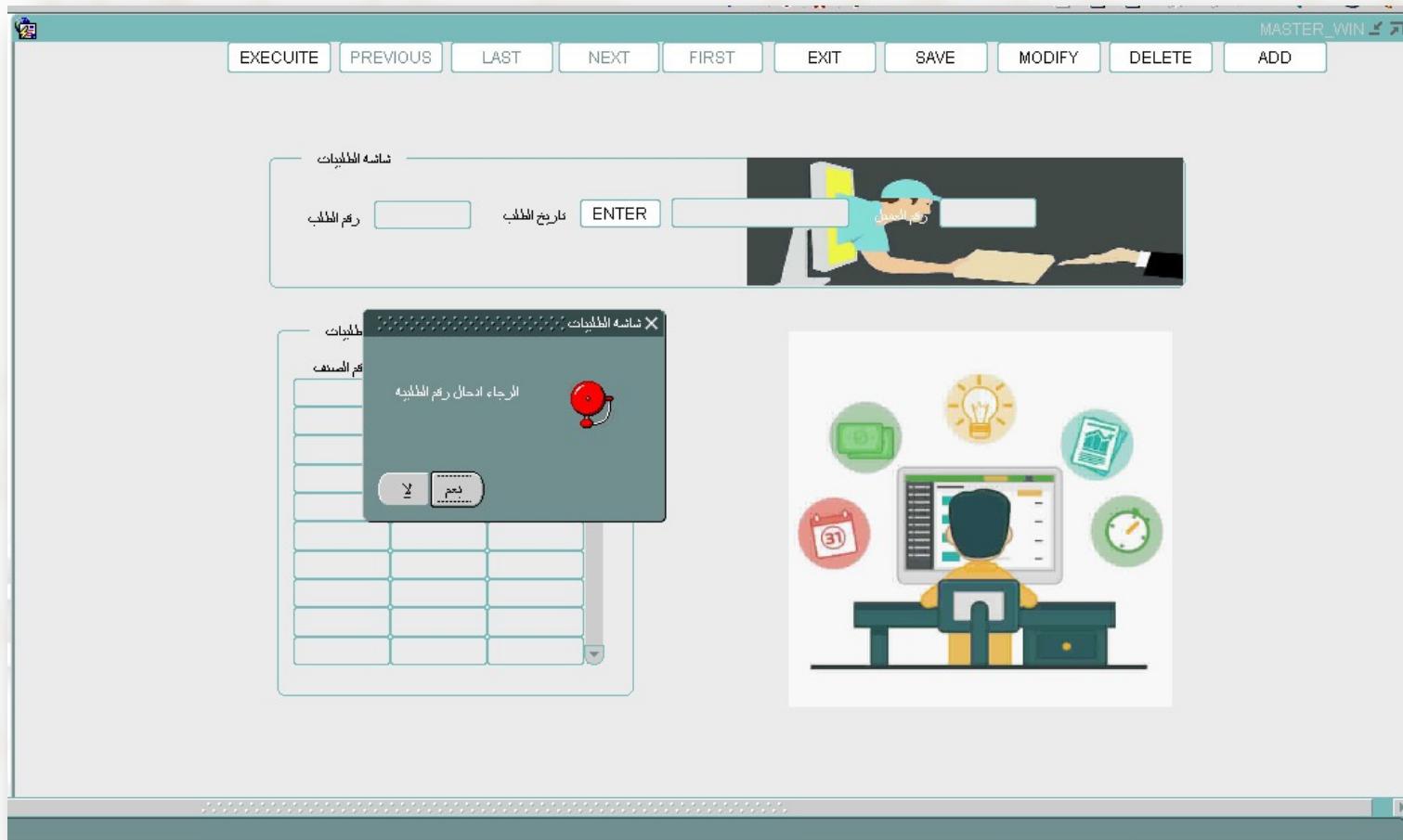
# Task 04: COOP Project

✓ master screen



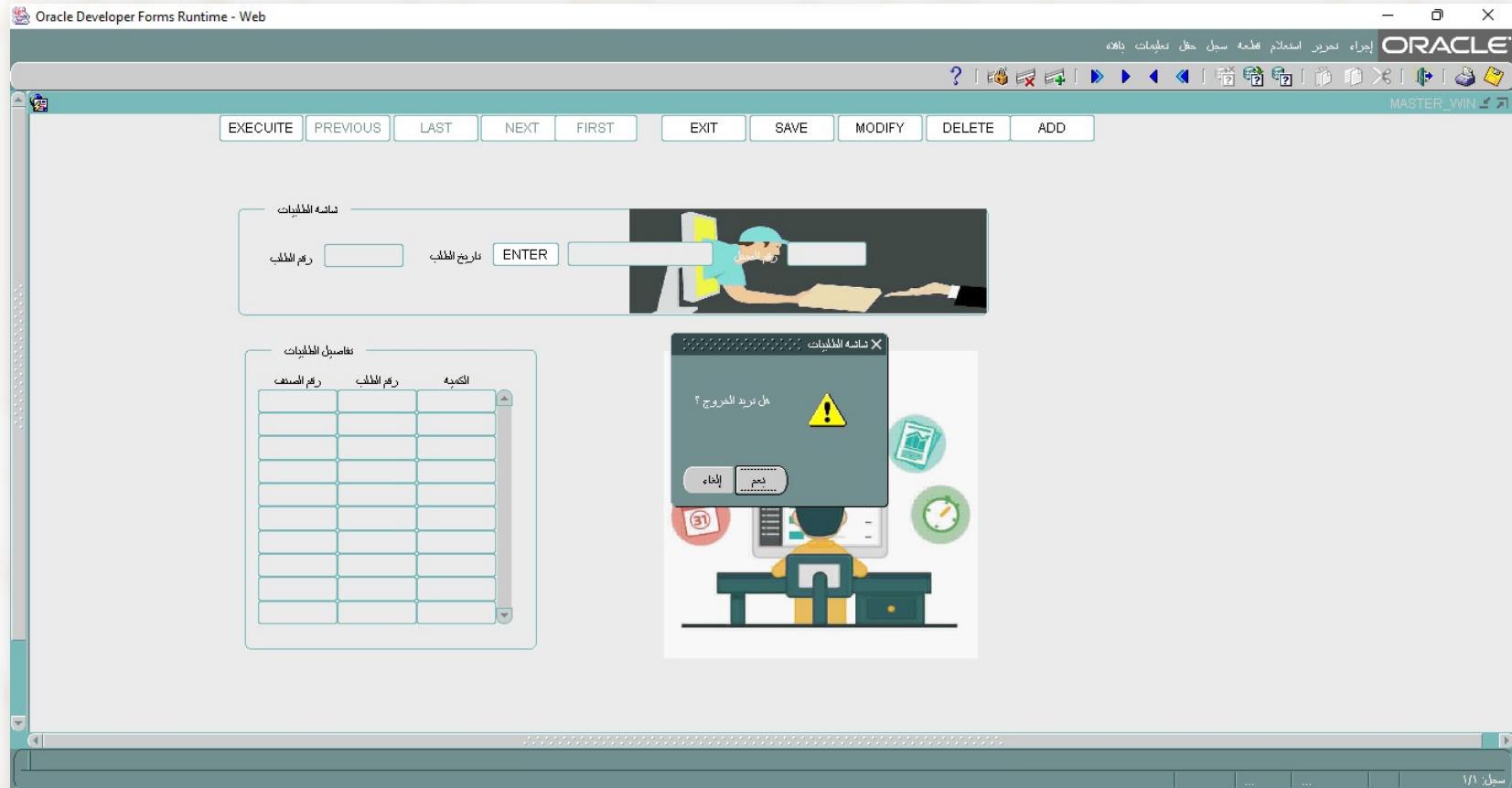
# Task 04: COOP Project

## ✓ master screen



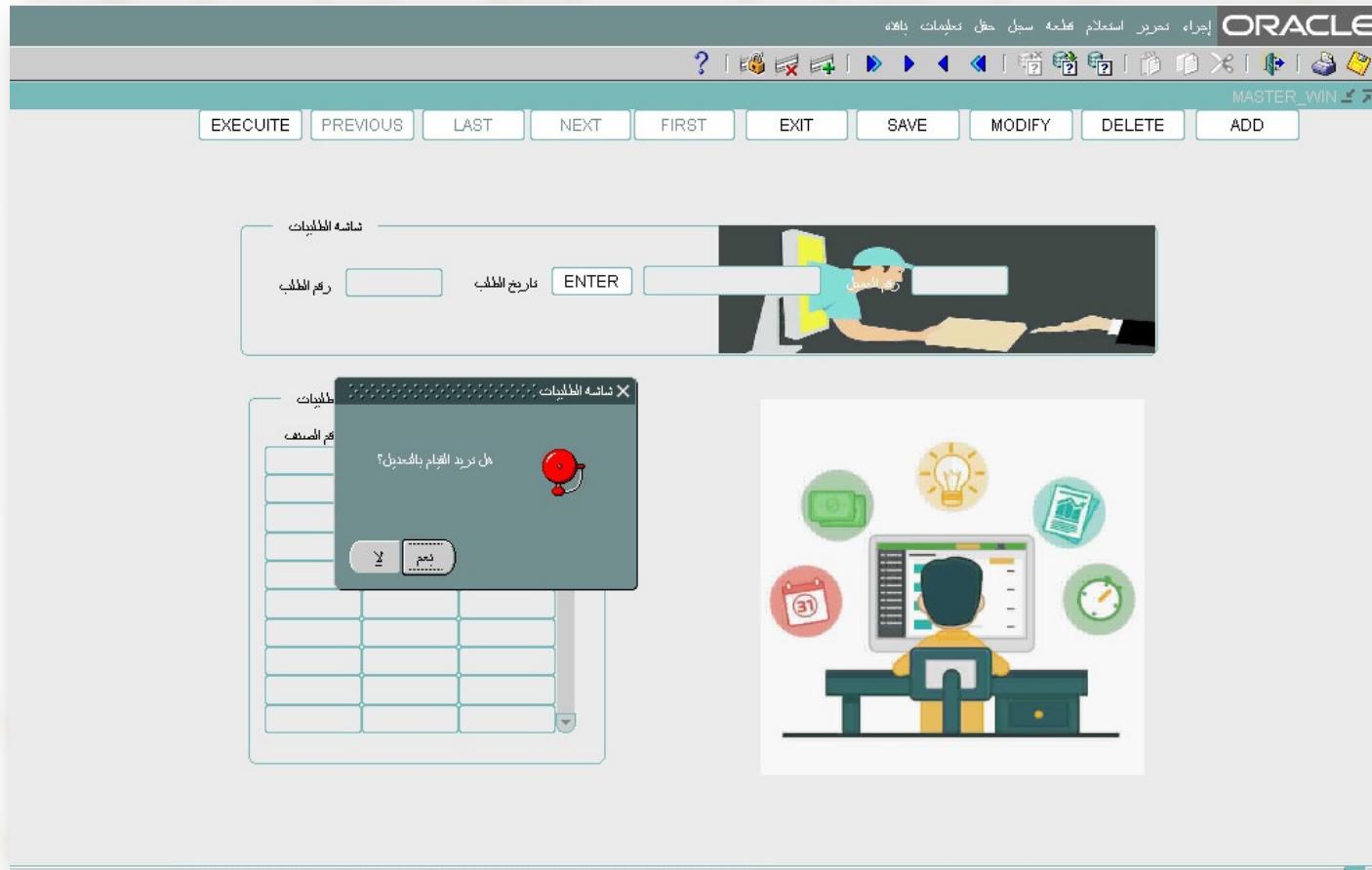
# Task 04: COOP Project

## ✓ master screen



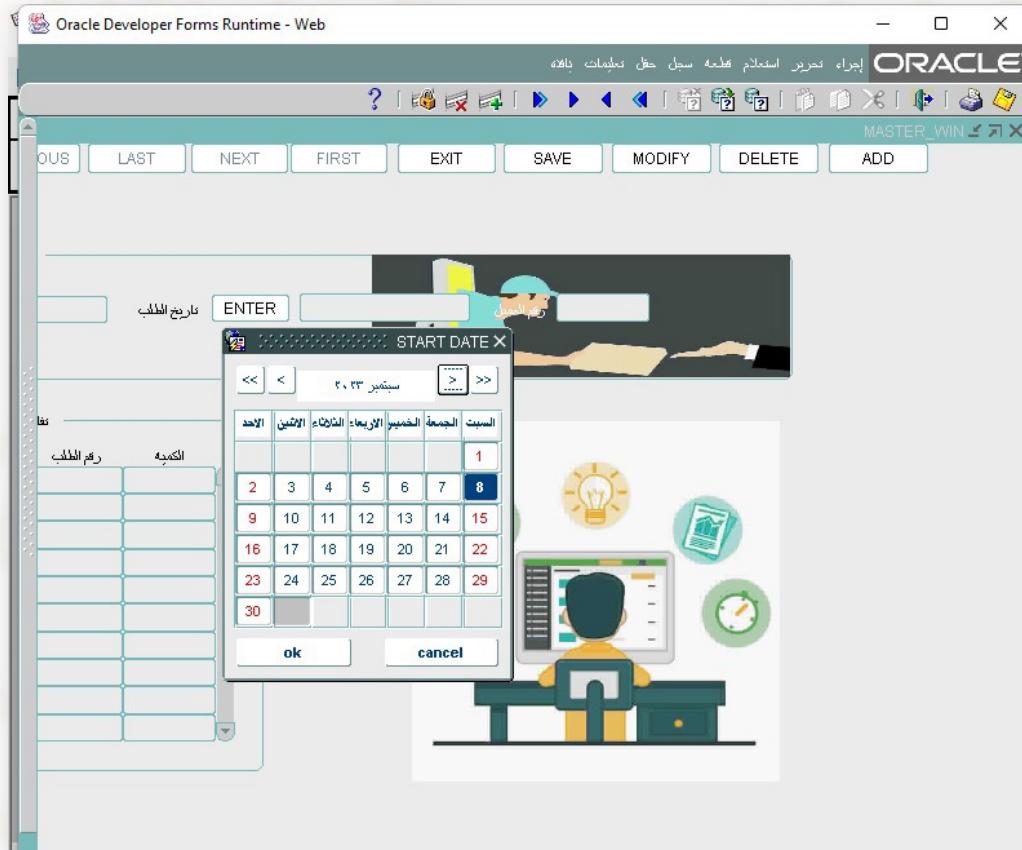
# Task 04: COOP Project

- ✓ master screen



# Task 04: COOP Project

✓ master screen



# Task 04: COOP Project

## 4- Create reports

- ✓ This is a general report of the stock table from all columns, with the addition of a column for the total selling price.

رقم الصنف	اسم الصنف	الكمية	تاريخ الدخول	سعر البيع	سعر الشراء
الإجمالي	سعر البيع				
٣	MBOARD	١٠٠	٢٢/٠٨/٢٣	١٠٠	٩٠
٧	CD	٥	٠٣/٠٩/٢٣	١٥	٥
١	CD	١٠٠	٢٢/٠٨/٢٣	١٠	٥
٢	CDW	٨٠	٢٢/٠٨/٢٣	٣٠	٢٠
٤	HD	١٠٠	٢٢/٠٨/٢٣	١٠٠	٩٠
٥	SCREEN	١٠٠	٢٢/٠٨/٢٣	١٠٠	٩٥٠
٦	MBOARD	٣٣	٠١/٠٩/٢٣	٢٠	١٥
٨	HD	٢	٠٣/٠٩/٢٣	٩٠	٦٠
٩	SCREEN	٣٠	٠٣/٠٩/٢٣	٣٠٠	١٠٥٠
١٠	MBOARD	١	٣١/١٠/٢٣	٧٩٠	٣٠٠

# Task 04: COOP Project

## 4- Create reports

Count Ords Itno		It Desc
		CD

# Task 04: COOP Project

## 4- Create reports

- ✓ This is a general report of the customer table from all columns.

رقم العميل	اسم العميل	البريد الإلكتروني	العنوان
١	khaowlah	khaowlah@gmail.com	qatif
٤	nora	nora@gmail.com	DMM
٢	mohammed	mohammed@gmail.com	jubail
٣	ali	ali@gmail.com	qatif
٥	safi	safi@gmail.com	qatif
٦			

# Task 04: COOP Project

## 4- Create reports

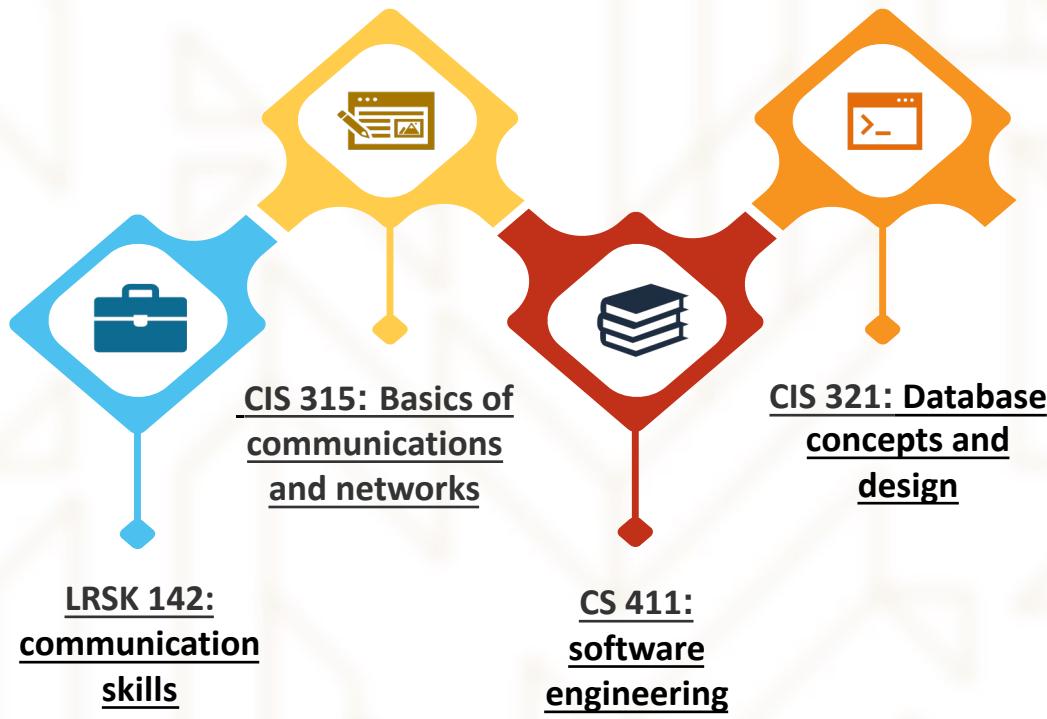
Count Orders Cno	Cname
1	khaowlah

# Challenges



# **Lesson Learned**

# Academic Courses support you during training



# **Suggestions**

## **Self-Evaluation and Reasoning**

Every task was interesting, I accomplished my tasks successfully and I am satisfied with what I did and what I learned from this project because I developed many skills also, I was helping my team immediately and the site supervisor thanked us for our effort.





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# COOP Evaluators End of Year Presentation (2023)

