

# DATABASE SECD2523 (SECTION 1) SEMESTER 1- 2023/2024

#### LAB 1

### **LECTURER: DR. HASLINA HASHIM**

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#### SECTION 6 LESSON 3 EXERCISE: DATA DEFINITION LANGUAGE

#### Use DDL to build and maintain database tables (S6L3 Objective 3)

#### Part 1: Reading Information from a script

In this exercise you will use the "obl Sports.ddl" file to consolidate your knowledge of DDL.

Open the "obl Sports.ddl" in a text editor.

- 1. How many tables have been created using the CREATE TABLE statement? 10 tables
- 2. How many columns are created for the price history table? 6 columns
- 3. What statement is used to enforce the constraint that the category column of the items table must have a value?

**NOT NULL** 

4. What is the name of the foreign key constraint between the customers and customer addresses tables?

customer address customer fk

5. What are the lowest and highest values that can be stored in the commission\_rate column for the sales representatives table?

<u>lowest values</u>: -99 highest values: 99

6. What are the lowest and highest values that can be stored in the price column for the price history table?

lowest value: -99999.99 highest value: 99999.99

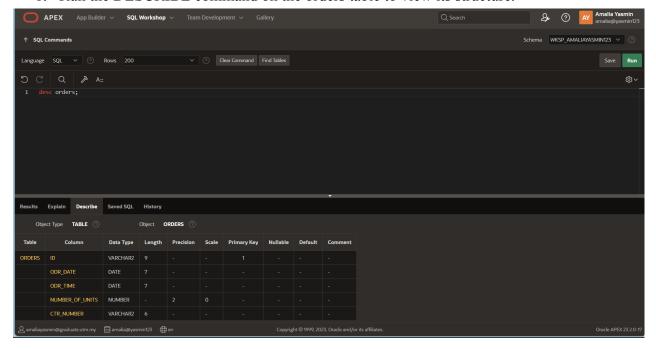
7. What are the 3 columns that make up the primary key for the price\_history table? <a href="mailto:itm number">itm number</a>, start date and start time

### Part 2: Updating constraints

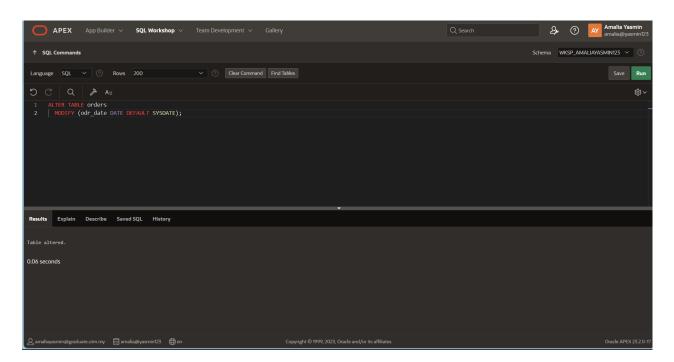
Log-in to APEX and go to SQL commands environment.

## Modifying a column

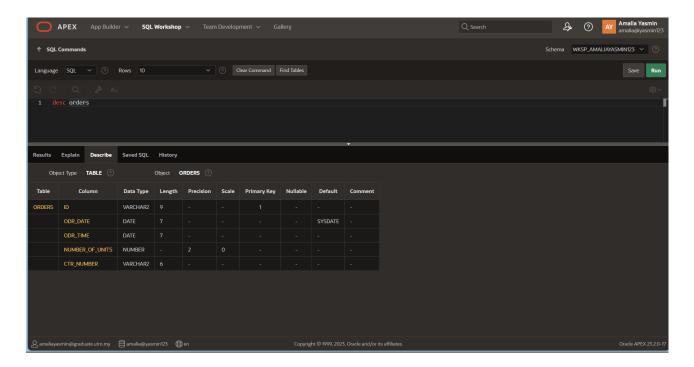
1. Run the DESCRIBE command on the orders table to view its structure.



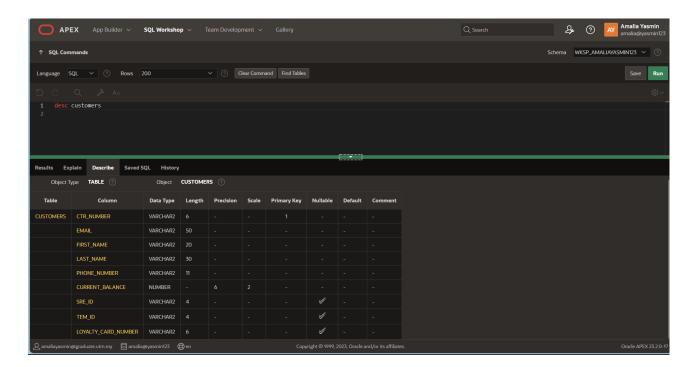
2. **Task**: Add a default constraint that will use today's date to assign a value to the odr\_date column of the orders table if no date is provided.



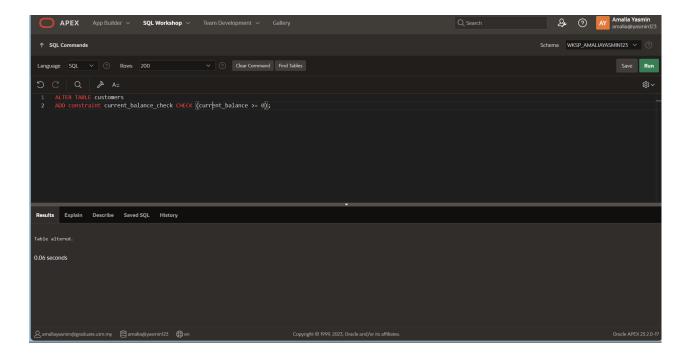
3. Run the DESCRIBE command again to verify the command was successful.



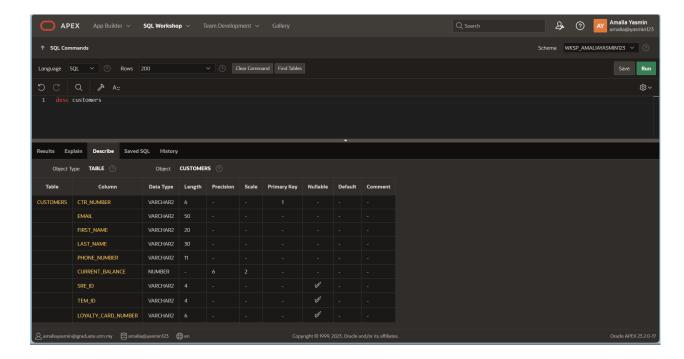
### Adding a check constraint



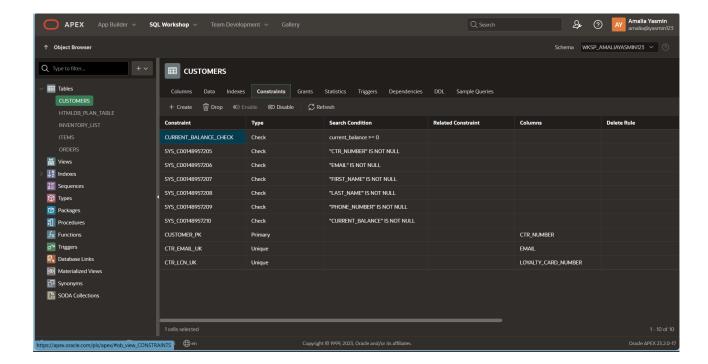
2. **Task**: Add a check constraint that will not allow the customers current balance to go below zero.



3. Run the DESCRIBE command again to verify the command was successful.

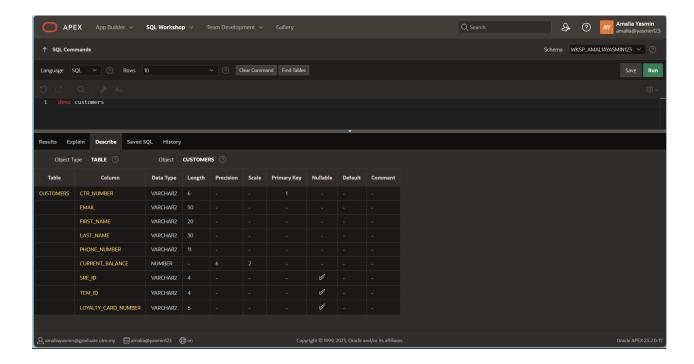


- 4. A check constraint is not shown in the results of a describe command.
  - a. Go to object browser.
  - b. Select the customers table.
  - c. Click on CONSTRAINTS tab.
  - d. You will see your constraint here.

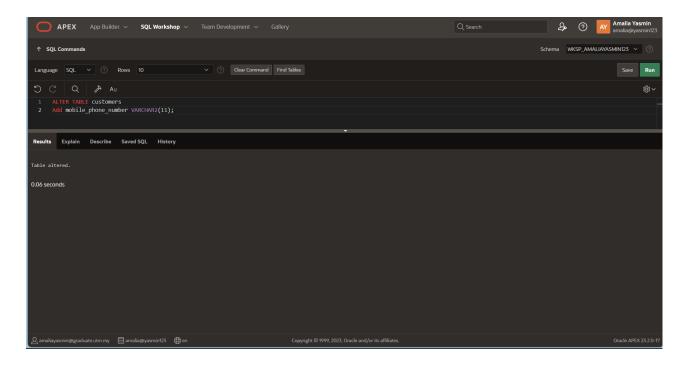


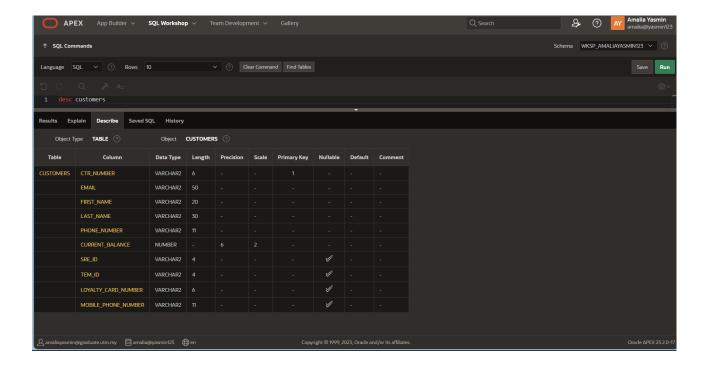
#### Adding a column

The client has decided that they would like a separate column for the customer's mobile phone number. This is an optional column that will be required to store 11 digits.



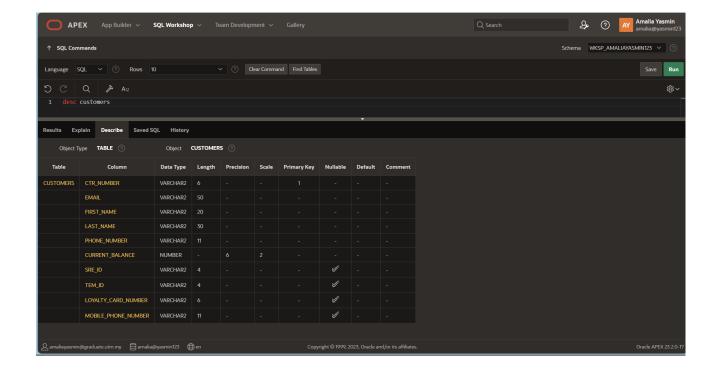
2. **Task**: Add column that will satisfy the clients requirements.





### Dropping a column

The client has decided that they don't need the mobile phone number column as most customers only provide a single contact number and that is already catered for the existing phone\_number column.



2. **Task:** Drop the column that was created to store the mobile phone number.

