#### LAB<sub>1</sub>

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# 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?

Ans: 10 tables

2. How many columns are created for the price history table?

Ans: 6 columns

3. What statement is used to enforce the constraint that the category column of the items table must have a value?

Ans: NOT NULL

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

Ans: 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?

Ans: Lowest value is -99, highest value is 99

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

Ans: Lowest value is -99999.99, highest value is 99999.99

7. What are the 3 columns that make up the primary key for the price\_history table?

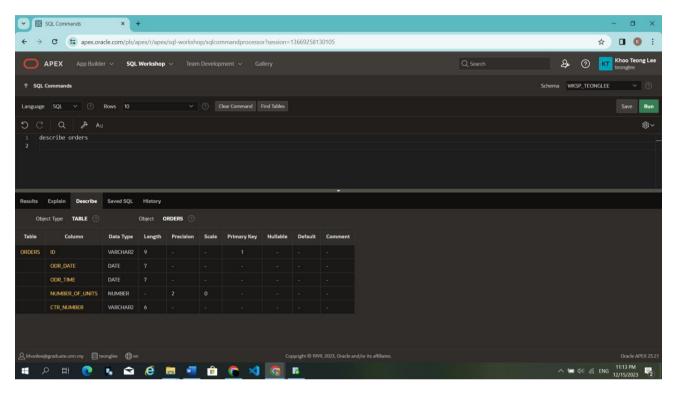
Ans: itm number, start date, start time

# **Part 2: Updating Constraints**

Log-in to APEX and go the SQL commands environment

# Modifying a column

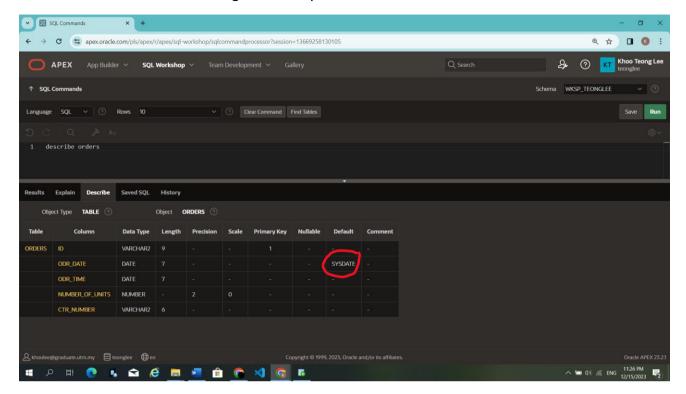
1. Run the DESCRIBE command on the orders table to view its structure.



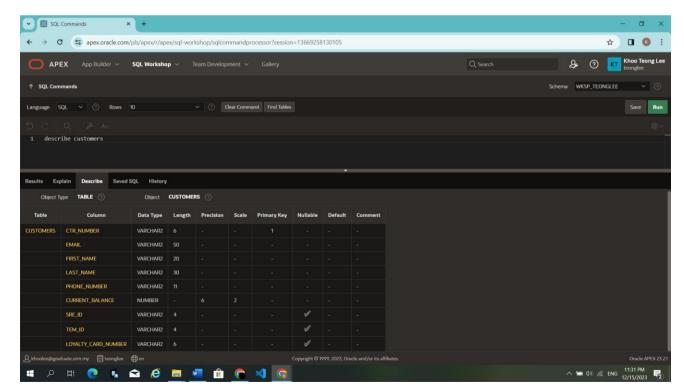
2. Task: Add a default constraint that will use todays date to assign a value to the odr\_date column of the orders table if no date is provided.



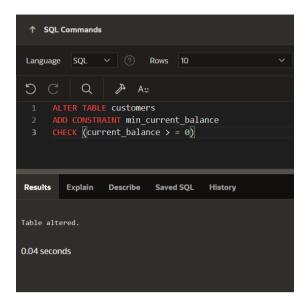
3. Run the DESCRIBE command again to verify the command was successful.



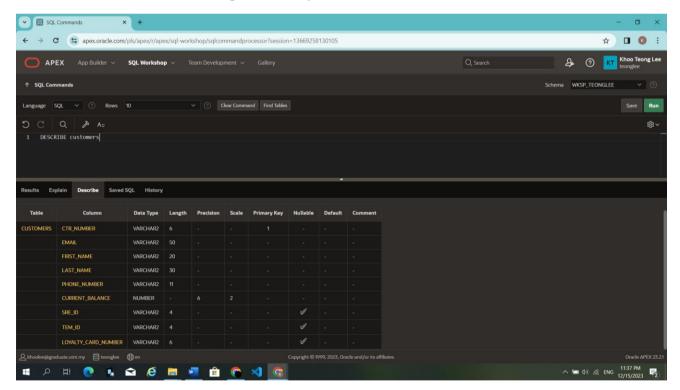
# Adding a check constraint



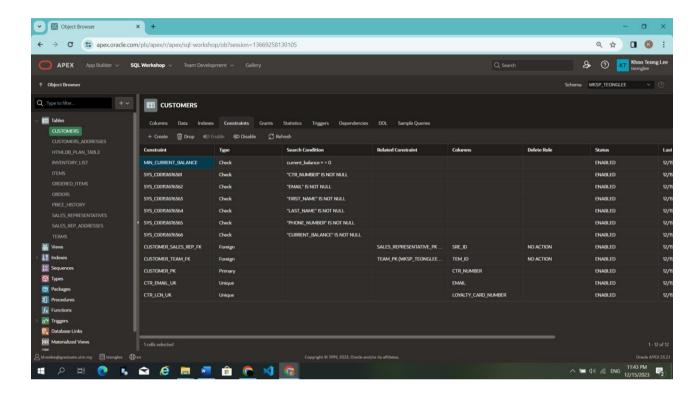
2. Task: Add a check constraint that will not allow the customers current balance to go below zero.



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

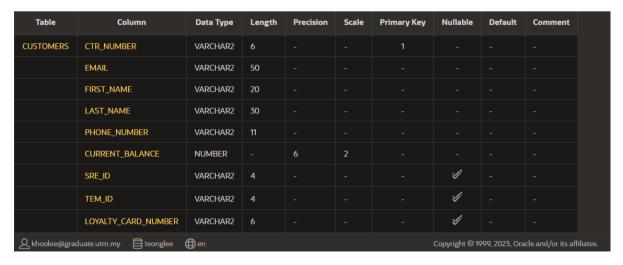


- 4. A check constraint is not shown in the results of a describe command.
  - a. Go to the Object Browser
  - b. Select the customers table.
  - c. Click on the CONSTRAINTS tab.
  - d. You will see your constraint here.

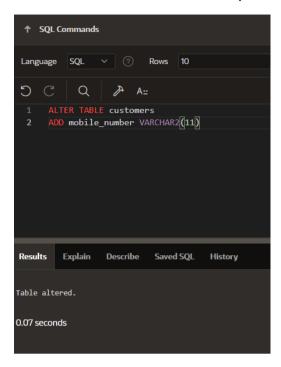


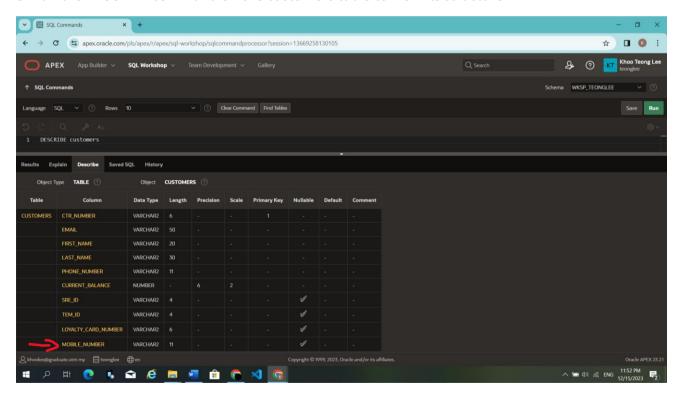
# Adding a column

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

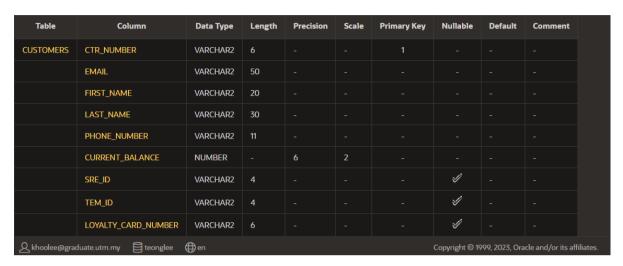




# Dropping a column

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

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



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

