

## LAB 1 DDL

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Section	08

# Section 6 Lesson 3 Exercise : Data Definition Language

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" statement

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?

Lowest: -99 Highest: 99

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

Lowest : -99999.99 Highest : 99999.99

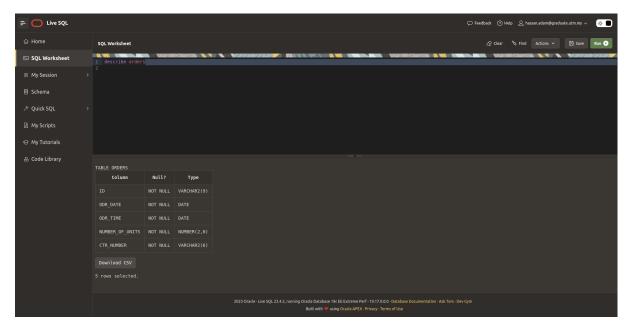
7. What are the 3 columns that make up the primary key for the price\_history table?

Itm\_number, start\_date, start\_time

### Part 2: Updating Constraints

Log-in to APEX and go to the SQL commands environment Modifying a column

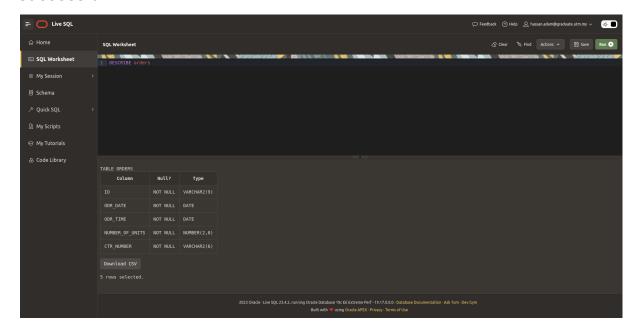
1. Run the DESCRIBE command on the orders table to view its structure.



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.

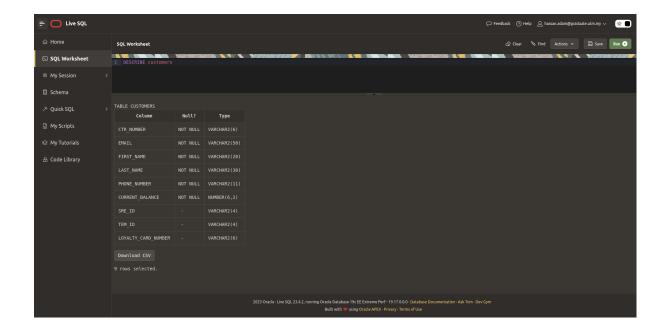
ALTER TABLE orders MODIFY ODR TIME DATE DEFAULT SYSDATE;

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



#### Adding a check constraint

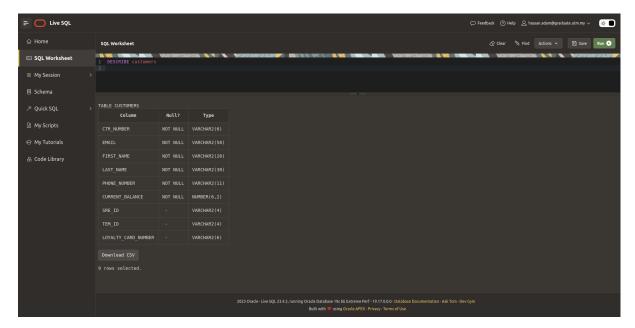
1. Run the DESCRIBE command on the customers table to view its structure.



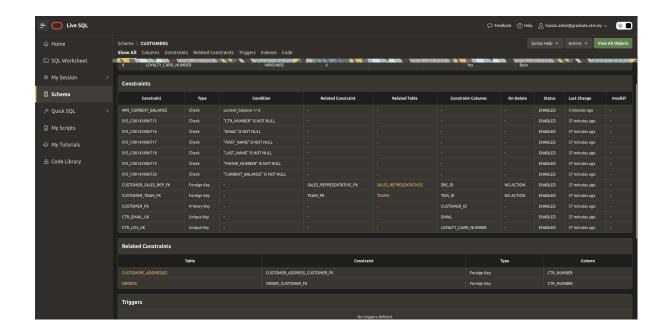
2. Task: Add a check constraint that will not allow the customers current balance to go below zero.

ALTER TABLE customers ADD CONSTRAINT min\_current\_balance CHECK (current\_balance >= 0)

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



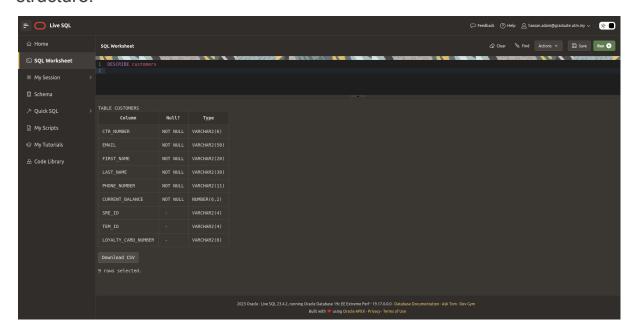
- 4. A check constraint is not shown in the results of a describe command.
- a. Go to the Object Browser
- b. Select the customers table.
- c. Click on the CONSTRAINTS tab.
- d. You will see your constraint here



#### 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.

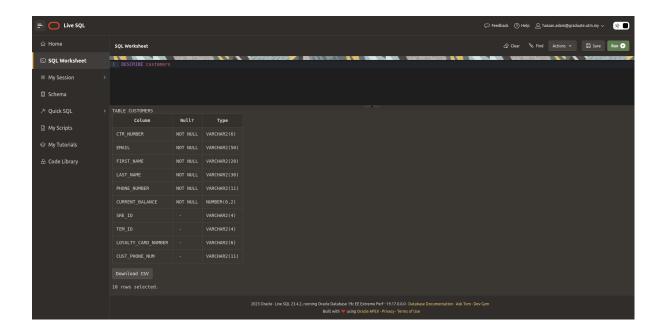
1. Run the DESCRIBE command on the customers table to view its structure.



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

ALTER TABLE customers ADD cust\_phone\_num VARCHAR2(11);

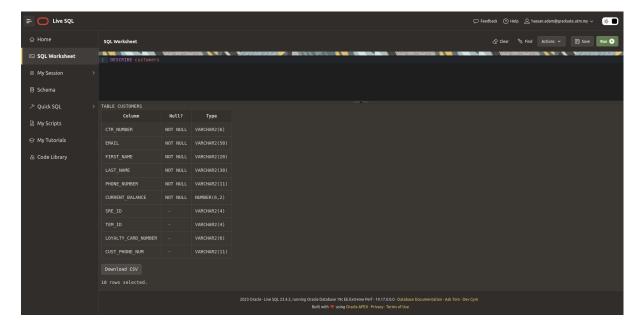
3. Run the DESCRIBE command on the customers table to view its structure.



#### 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.

ALTER TABLE customers DROP (cust\_phone\_num)

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

