



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SECD2523 - DATABASE

SECTION 10

SQL 2 : DML 1 PART 1

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Section 6 Lesson 4 Exercise 1: Data Manipulation Language

Use DML operations to manage database tables (S6L4 Objective 2)

In this exercise you will populate and work with the data that is stored in the database system tables.

Part 1 : Running a script to populate the tables.

You have to consider the order of the tables when populating them. A table that has a foreign key field cannot be populated before the related table with the primary key.


1. Use the table mapping document and list the order that you would use to populate the tables.
2. Open the “sports data.sql” and look at the order the data is being added there, does your list match? This file can be found in the Section 6 Lesson 4 interaction (sports data.zip) and must first be extracted.
3. Run the “sports data.sql” script in APEX to populate your tables
4. Check that no errors occurred when you ran the script.

SQL Scripts Results				
Script: sports data.sql Status: Complete				
View: Detail Summary Rows: 15 Go Create App Edit Script				
Number	Elapsed	Statement	Feedback	Rows
1	0.07	INSERT INTO inventory_list (id, cost, units) VALUES('101023	1 row(s) inserted.	1
2	0.00	INSERT INTO inventory_list (id, cost, units) VALUES('101023	1 row(s) inserted.	1
3	0.01	INSERT INTO inventory_list (id, cost, units) VALUES('101023	1 row(s) inserted.	1
4	0.00	INSERT INTO inventory_list (id, cost, units) VALUES('101023	1 row(s) inserted.	1
5	0.00	INSERT INTO inventory_list (id, cost, units) VALUES('101023	1 row(s) inserted.	1
6	0.03	INSERT INTO items (itm_number, name, description, category,	1 row(s) inserted.	1
7	0.00	INSERT INTO items (itm_number, name, description, category,	1 row(s) inserted.	1
8	0.00	INSERT INTO items (itm_number, name, description, category,	1 row(s) inserted.	1
9	0.00	INSERT INTO items (itm_number, name, description, category,	1 row(s) inserted.	1
10	0.00	INSERT INTO items (itm_number, name, description, category,	1 row(s) inserted.	1
11	0.04	INSERT INTO price_history (start_date, start_time, price, it	1 row(s) inserted.	1
12	0.00	INSERT INTO price_history (start_date, start_time, price, en	1 row(s) inserted.	1
13	0.01	INSERT INTO price_history (start_date, start_time, price, en	1 row(s) inserted.	1
14	0.00	INSERT INTO price_history (start_date, start_time, price, it	1 row(s) inserted.	1
15	0.00	INSERT INTO price_history (start_date, start_time, price, it	1 row(s) inserted.	1
Download				

Part 2- Inserting rows to the system

1. Add a new team to the system

id	name	number_of_players	discount
t004	Jets	10	5

 **APEX** App Builder SQL Workshop Team Development Gallery

↑ SQL Commands Schema WKSP_LAB2PART1

Language SQL Rows 10 Clear Command Find Tables Save **Run**

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```
1 INSERT INTO teams(id, name, number_of_players, discount)
2 VALUES ('t004', 'Jets', 10, 5);
```

Results Explain Describe Saved SQL History

1 row(s) inserted.

0.01 seconds

2. Add a new Customer with the following details to the system

ctr number	email	First name	Last name	Phone number	Current balance	Loyalty card number	tem id	sre id
c02001	brianrog@hoootech.com	Brian	Rogers	01654564898	-5	lc4587		

APEX

App Builder

SQL Workshop

Team Development

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lab2part1

SQL Commands

Schema WKSP_LAB2PART1

Language SQL

Rows 10

Clear Command

Find Tables

Save

Run

Az

1

INSERT INTO customers(ctr_number,email,First_name,Last_name,Phone_number,Current_balance,Loyalty_card_number,tem_id,sre_id)

2

VALUES ('c02001','brianrog@hoootech.com','Brian','Rogers','01654564898',-5,'lc4587',null,null);

Results

Explain

Describe

Saved SQL

History

1 row(s) inserted.

0.03 seconds

3. This information violates the check constraint that the current balance must not be less than zero. Change the current balance to 50 and rerun the query.

The screenshot displays the APEX SQL Workshop interface. At the top, the navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'ALIA MAISARAH lab2part1' are also visible. The main area is titled 'SQL Commands' and shows the 'Schema' set to 'WKSP_LAB2PART1'. The 'Language' is set to 'SQL' and 'Rows' to '10'. The SQL command being executed is:

```
1 UPDATE customers
2 SET current_balance = 50;
```

Below the command editor, the 'Results' tab is active, showing the output: '6 row(s) updated.' and '0.01 seconds'.