



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

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SEMESTER 1, SESSION 2023/2024

LAB 2 – DML 1 PART 1

SECD2523: DATABASE

SECTION 10

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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.

Download

| Number | Elapsed | Statement | Feedback | Rows |
|--------|---------|--|--------------------|------|
| 1 | 0.04 | 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 | 0.04 | 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 | 0.01 | 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 |
| 5 | 0.00 | INSERT INTO inventory_list (id, cost, units) VALUES (101023) | 1 row(s) inserted. | 1 |
| 6 | 0.04 | 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 | 0.01 | 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 | 0.02 | 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 |

row(s) 1 - 15 of 47 Next

47
Statements Processed

47
Successful

0
With Errors

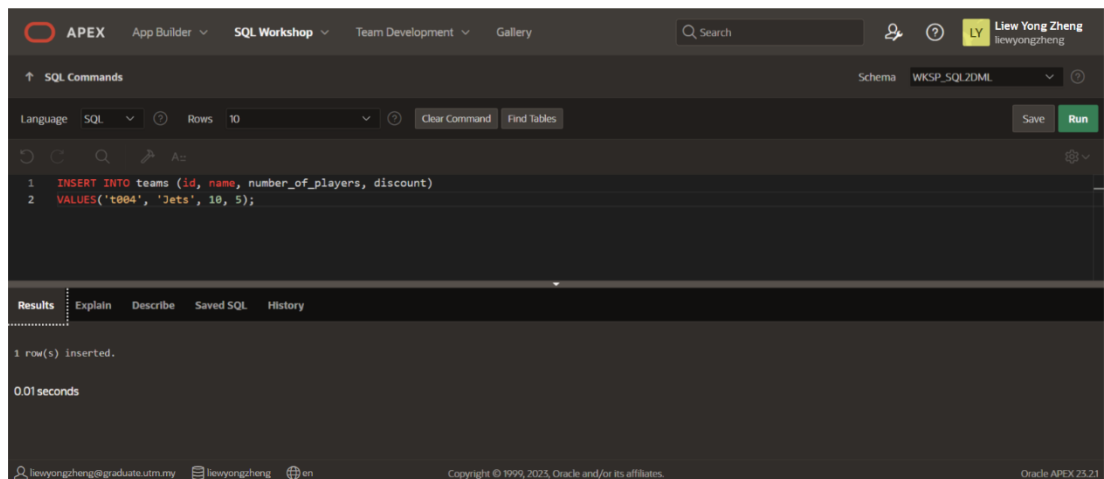
liewyongzheng@graduate.utm.my liewyongzheng en Copyright © 1999, 2023, Oracle and/or its affiliates. Oracle APEX 23.23

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 |

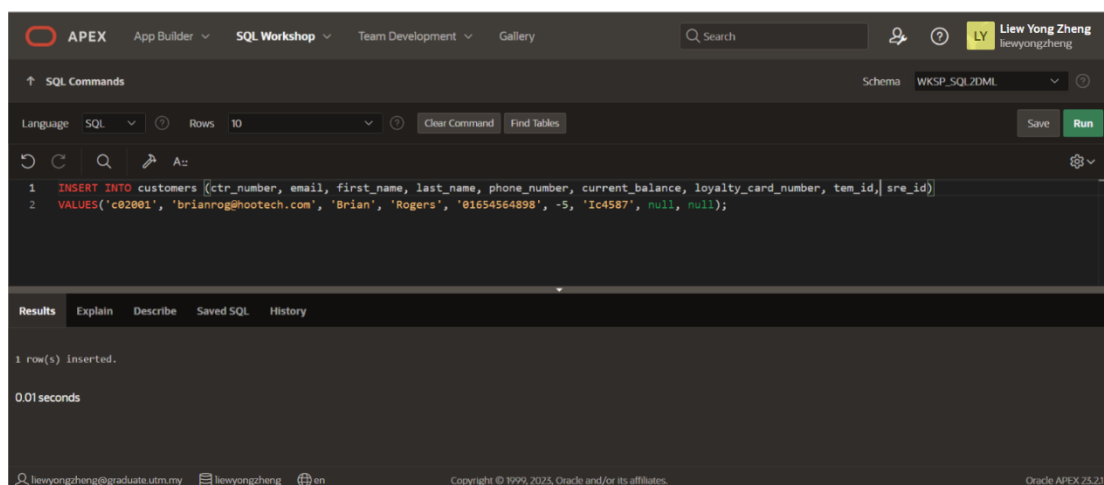
- INSERT INTO teams (id, name, number_of_players, discount)
VALUES ('t004', 'Jets', 10, 5);



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@hootech.com | Brian | Rogers | 01654564898 | -5 | lc4587 | | |

- INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number, current_balance, loyalty_card_number, tem_id, sre_id)
VALUES ('c02001', 'brianrog@hootech.com', 'Brian', 'Rogers', '01654564898', -5, 'lc4587', null, null);



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.

- UPDATE customers
SET current_balance = 50;

