

SECD2523-01 PANGKALAN DATA (DATABASE) SQL 2 – DML 1 PART 1 SEMESTER 1 (2023/2024)

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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.

inventory_list
items

price_history

sales_representatives

sales_rep_addresses

teams

customers

customers_addresses

orders

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.

Yes, it matches

ordered_items

- 3. Run the "sports data.sql" script in APEX to populate your tables
- 4. Check that no errors occurred when you ran the script.

Number ↑=	Elapsed	Statement			Feedback	Rows	
1	0.04	INSERT INTO inventory_list (id, cost, units) VALUES('il01023			1 row(s) inserted.	1	
2	0.00	INSERT INTO inventory_I	st (id, cost, units) VALUES('il01023		1 row(s) inserted.	1	
3	0.01	INSERT INTO inventory_I	st (id, cost, units) VALUES('il01023		1 row(s) inserted.	1	
4	0.00	INSERT INTO inventory_I	st (id, cost, units) VALUES('il01023		1 row(s) inserted.	1	
5	0.00	INSERT INTO inventory_I	st (id, cost, units) VALUES('il01023		1 row(s) inserted.	1	
6	0.04	INSERT INTO items (itm_	INSERT INTO items (itm_number, name, description, category,			1	
7	0.00	INSERT INTO items (itm_	INSERT INTO items (itm_number, name, description, category,			1	
8	0.00	INSERT INTO items (itm_	INSERT INTO items (itm_number, name, description, category,			1	
9	0.00	INSERT INTO items (itm_	INSERT INTO items (itm_number, name, description, category,			1	
10	0.00	INSERT INTO items (itm_	INSERT INTO items (itm_number, name, description, category,				
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.		
14	0.00	INSERT INTO price_history (start_date, start_time, price, it			1 row(s) inserted.		
15	0.00	INSERT INTO price_history (start_date, start_time, price, it			1 row(s) inserted.		
Download							
						1 - 15 of 47 Next ▶	
	47		47		0		
Statements Processed			Successful		With Errors		

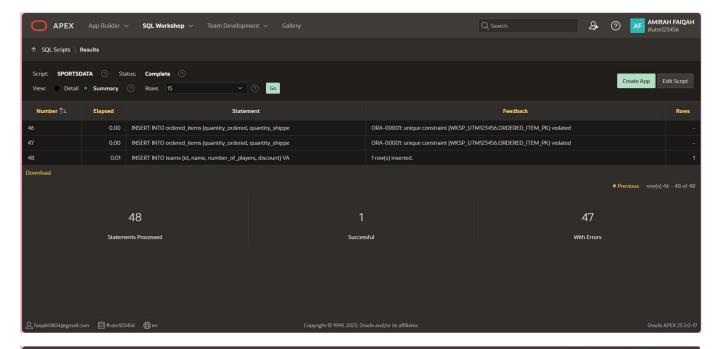
Part 2- Inserting rows to the system

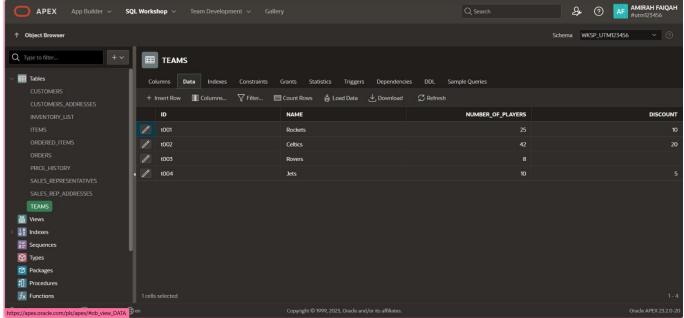
1. Add a new team to the system

id	name	Number_of_players	discount	
t004	Jets	10	5	

INSERT INTO teams (id, name, number_of_players, discount)

VALUES('t004', 'Jets', 10, 5);



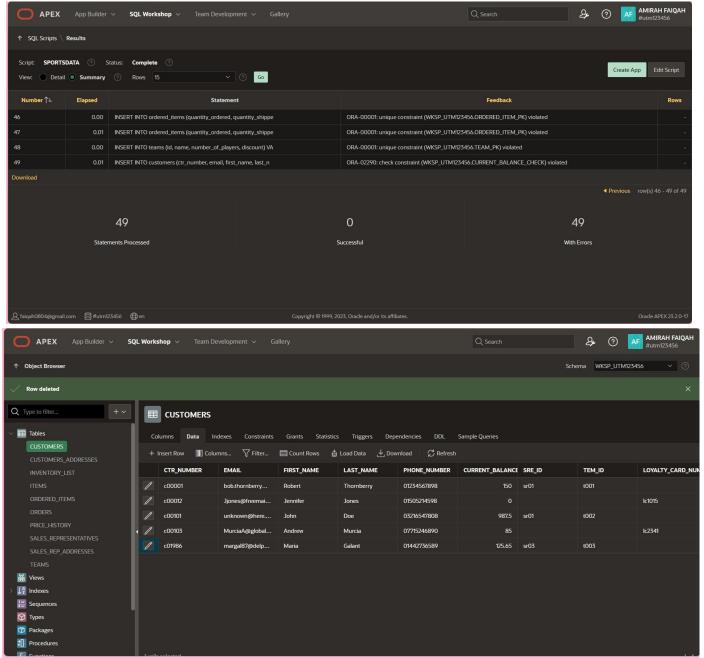


2. Add a new Customer with the following details to the system

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

INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number, current_balance, loyalty_card_number, sre_id, tem_id)

VALUES('c02001', 'brianrog@hootech.com', 'Brian', 'Rogers', '01654564898', -5.00, '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.

INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number, current_balance, loyalty_card_number, sre_id, tem_id)

VALUES('c02001', 'brianrog@hootech.com', 'Brian', 'Rogers', '01654564898', 50.00, 'lc4587', null, null);

