



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

FACULTY OF COMPUTING
UTM Johor Bahru

<DfO 6.4 Project>

Lab 2

SECD2523 - Database

SEMESTER I, SESSION 2023/2024

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Section	08

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.

Yes, it is matched.

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	0.05	INSERT INTO inventory_hist (id, cost, units) VALUES('000025	1 row(s) inserted.	1
2	0.00	INSERT INTO inventory_hist (id, cost, units) VALUES('000025	1 row(s) inserted.	1
3	0.01	INSERT INTO inventory_hist (id, cost, units) VALUES('000025	1 row(s) inserted.	1
4	0.00	INSERT INTO inventory_hist (id, cost, units) VALUES('000025	1 row(s) inserted.	1
5	0.00	INSERT INTO inventory_hist (id, cost, units) VALUES('000025	1 row(s) inserted.	1
6	0.02	INSERT INTO items (item_number, name, description, category,	1 row(s) inserted.	1
7	0.01	INSERT INTO items (item_number, name, description, category,	1 row(s) inserted.	1
8	0.00	INSERT INTO items (item_number, name, description, category,	1 row(s) inserted.	1
9	0.00	INSERT INTO items (item_number, name, description, category,	1 row(s) inserted.	1
10	0.00	INSERT INTO items (item_number, name, description, category,	1 row(s) inserted.	1
11	0.01	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	0.00	INSERT INTO price_history (start_date, start_time, price, en	1 row(s) inserted.	1
14	0.01	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

47 Statements Processed

47 Successful

0 With Errors

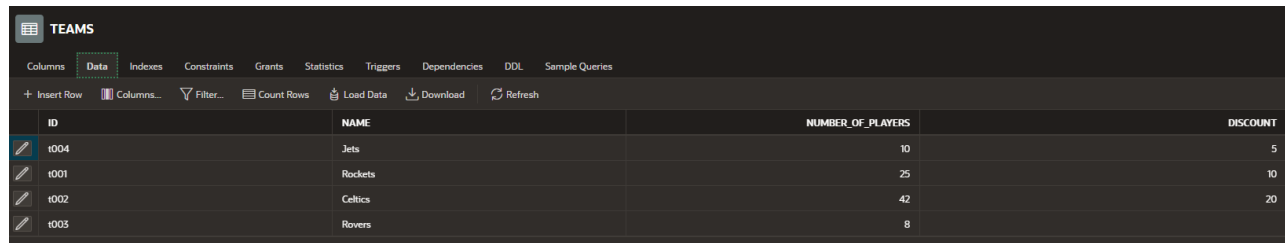
row(s) 1 - 15 of 47

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

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



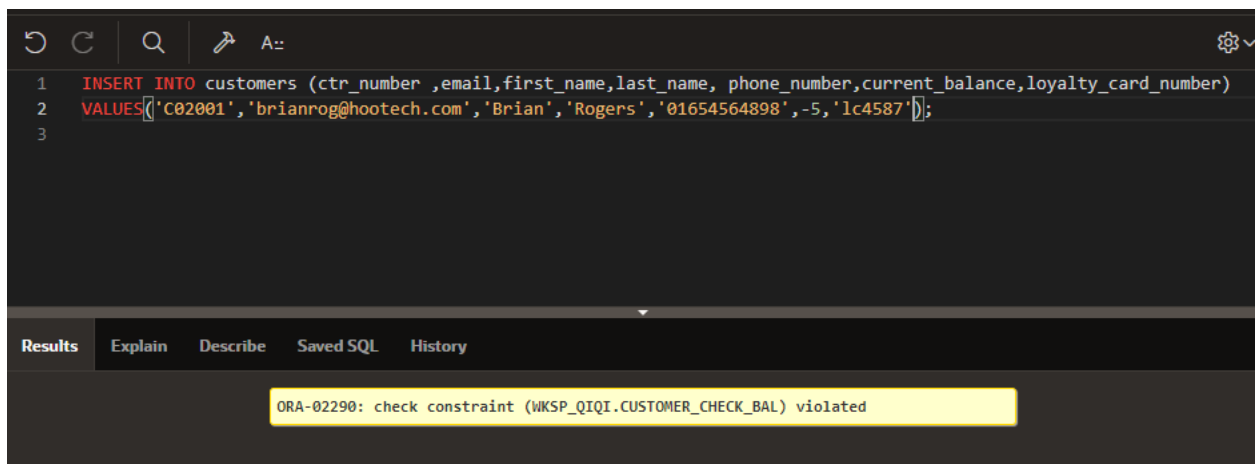
ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT
t004	Jets	10	5
t001	Rockets	25	10
t002	Celtics	42	20
t003	Rovers	8	20

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		

Ans : INSERT INTO customers (ctr_number ,email,first_name,last_name, phone_number,current_balance,loyalty_card_number)

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



```

1  INSERT INTO customers (ctr_number ,email,first_name,last_name, phone_number,current_balance,loyalty_card_number)
2  VALUES('c02001','brianrog@hootech.com','Brian','Rogers','01654564898',-5,'lc4587');
3

```

Results Explain Describe Saved SQL History

ORA-02290: check constraint (WKSP_QIQI.CUSTOMER_CHECK_BAL) violated

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.

Ans:

INSERT INTO customers

(ctr_number,first_name,last_name,phone_number,current_balance,loyalty_card_number)

VALUES('c02001', 'brianrog@hootech.com', 'Brian', 'Rogers', '01654564898', 50, 'lc4587');

CUSTOMERS									
Columns Data Indexes Constraints Grants Statistics Triggers Dependencies DDL Sample Queries									
+ Insert Row Columns... Filter... Count Rows Load Data Download Refresh									
	CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
	c02001	brianrog@hoootech.com	Brian	Rogers	01654564898	50			lc4587
	c00001	bob.thornberry@heatma...	Robert	Thornberry	01234567898	150	sr01	t001	
	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0			lc1015
	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	
	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85			lc2341
	c01986	margal87@idolphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	