BACHELOR OF COMPUTER SCIENCE(GRAPHIC AND MULTIMEDIA SOFTWARE)

SECD2523 - DATABASE

SEMESTER 20232024 – 1

SECTION 10

LAB DML 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.

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);

DESC teams;

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default
TEAMS	ID	VARCHAR2	4	-	-	1	-	-
	NAME	VARCHAR2	20	-	-	-	-	-
	NUMBER_OF_PLAYERS	NUMBER	-	2	0	-	-	-
	DISCOUNT	NUMBER	-	2	0	-	✓	-

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	0165456 4898	-5	lc4587		

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

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

DESC customers;

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMERS	CTR_NUMBER	VARCHAR2	6	-	-	1	-	-	-
	EMAIL	VARCHAR2	50	-	-	-	-	-	-
	FIRST_NAME	VARCHAR2	20	-	-	-	-	-	-
	LAST_NAME	VARCHAR2	30	-	-	-	-	-	-
	PHONE_NUMBER	VARCHAR2	11	-	-	-	-	-	-
	CURRENT_BALANCE	NUMBER	-	6	2	-	-	-	-
	SRE_ID	VARCHAR2	4	-	-	-	✓	-	-
	TEM_ID	VARCHAR2	4	-	-	-	✓	-	-
	LOYALTY_CARD_NUMBER	VARCHAR2	6	-	-	-	✓	-	-

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
WHERE ctr_number = 'c02001';

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMERS	CTR_NUMBER	VARCHAR2	6	-	-	1	-	-	-
	EMAIL	VARCHAR2	50	-	-	-	-	-	-
	FIRST_NAME	VARCHAR2	20	-	-	-	-	-	-
	LAST_NAME	VARCHAR2	30	-	-	-	-	-	-
	PHONE_NUMBER	VARCHAR2	11	-	-	-	-	-	-
	CURRENT_BALANCE	NUMBER	-	6	2	-	-	-	-
	SRE_ID	VARCHAR2	4	-	-	-	✓	-	-
	TEM_ID	VARCHAR2	4	-	-	-	✓	-	-
	LOYALTY_CARD_NUMBER	VARCHAR2	6	-	-	-	✓	-	-