SECD2523 – DATABASE

SEMESTER 1/20232024

SECTION 08

LAB 2: DML1

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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
   - teams
   - sales_representatives
   - customers
   - customers_addresses
   - orders
   - ordered_items
   - sales_rep_addresses
   - price_history

↑ SQL Commands

| Language | SQL ⌄ | ⑦ | Rows | 10 | ⌄ | ⑦ | Clear Command | Find Tables |

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1   CREATE OR REPLACE TRIGGER fkntm_orders BEFORE

| Results | Explain | Describe | Saved SQL | **History** |

15 minutes ago	CREATE TABLE price_history (start_date DATE NOT NULL, start_time DATE NOT NULL, pri
17 minutes ago	CREATE TABLE sales_rep_addresses (id VARCHAR2(4) NOT NULL, address_line_1 V
17 minutes ago	CREATE TABLE ordered_items (quantity_ordered NUMBER(3) NOT NULL, quantity_shipped NUMBE
17 minutes ago	CREATE TABLE orders (id VARCHAR2(9) NOT NULL, odr_date DATE NOT NUL
18 minutes ago	CREATE TABLE customers_addresses (id VARCHAR2(8) NOT NULL, address_line_1 V
18 minutes ago	CREATE TABLE customers (ctr_number VARCHAR2(6) NOT NULL, email V
18 minutes ago	CREATE TABLE sales_representatives (id VARCHAR2(4) NOT NULL, email
19 minutes ago	CREATE TABLE teams (id VARCHAR2(4) NOT NULL, name VARCHAR2(
19 minutes ago	CREATE TABLE items (itm_number VARCHAR2(10) NOT NULL, name VARCHAR2(20) NOT NUL
19 minutes ago	CREATE TABLE inventory_list (id VARCHAR2(11) NOT NULL, cost NUMBER(7,2) NOT NULL,

↑ SQL Commands

| Language | SQL ⌄ | ⑦ | Rows | 10 | ⌄ | ⑦ | Clear Command | Find Tables |

↺ ↻ 🔍 ⚒ A::

1   CREATE OR REPLACE TRIGGER fkntm_orders BEFORE

| Results | Explain | Describe | Saved SQL | **History** |

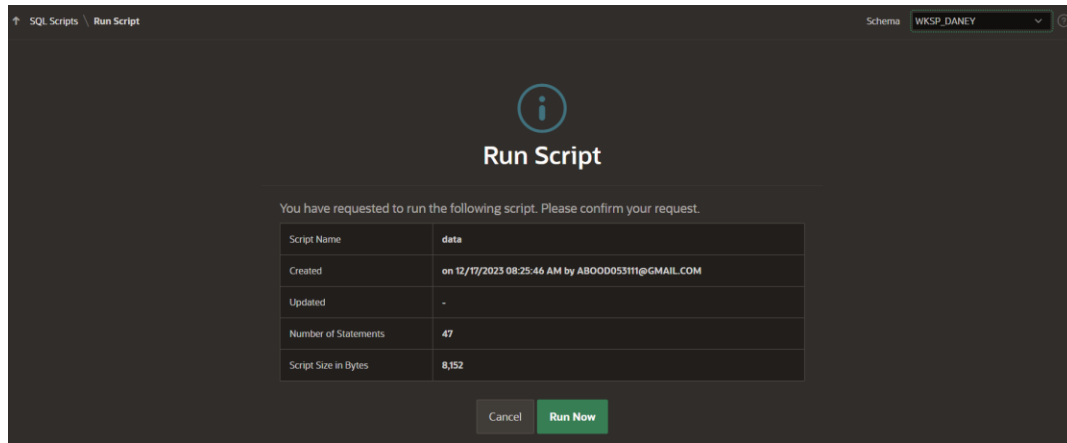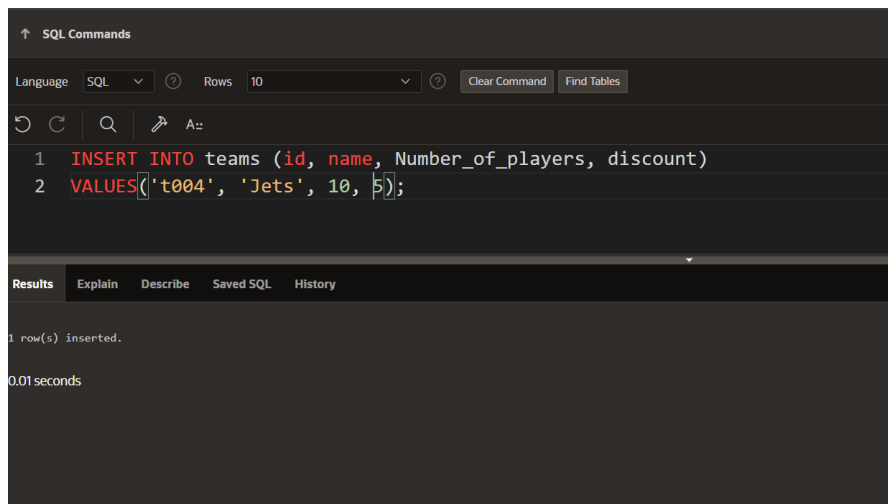| 4 minutes ago | CREATE OR REPLACE TRIGGER fkntm_orders BEFORE UPDATE OF ctr_number ON orders BEGIN raise_app |
4 minutes ago	ALTER TABLE sales_representatives ADD CONSTRAINT sales_rep_sales_rep_fk FOREIGN KEY (supervisor_id
4 minutes ago	ALTER TABLE sales_rep_addresses ADD CONSTRAINT sales_rep_add_sales_rep_fk FOREIGN KEY (id) REF
4 minutes ago	ALTER TABLE ordered_items ADD CONSTRAINT ordered_item_order_fk FOREIGN KEY (odr_id) REFERENCES
4 minutes ago	ALTER TABLE ordered_items ADD CONSTRAINT ordered_item_item_fk FOREIGN KEY (itm_number) REFEREN
5 minutes ago	ALTER TABLE orders ADD CONSTRAINT order_customer_fk FOREIGN KEY (ctr_number) REFERENCES custom
5 minutes ago	ALTER TABLE items ADD CONSTRAINT item_inventory_list_fk FOREIGN KEY (ilt_id) REFERENCES invent
5 minutes ago	ALTER TABLE customers ADD CONSTRAINT customer_team_fk FOREIGN KEY (tem_id) REFERENCES teams (
5 minutes ago	ALTER TABLE customers ADD CONSTRAINT customer_sales_rep_fk FOREIGN KEY (sre_id) REFERENCES sal
9 minutes ago	ALTER TABLE customers_addresses ADD CONSTRAINT customer_address_customer_fk FOREIGN KEY (ctr_number

2. Open the "sports data.sql" and look at the order the data is being added there, does your list match?
No, it doesn't match.

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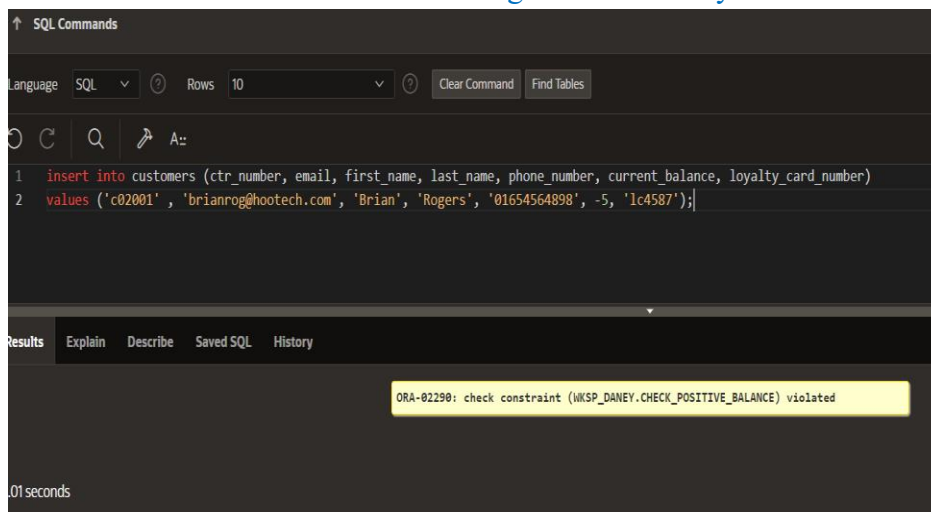4. Check that no errors occurred when you ran the script.

Part 2- Inserting rows to the system
1. Add a new team to the system

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

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

↑ SQL Commands

Language SQL ⌄ ⑦   Rows 10   ⌄ ⑦   Clear Command   Find Tables

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```
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' , 50, 'lc4587');
```

Results   Explain   Describe   Saved SQL   History

1 row(s) inserted.

0.03 seconds