

Database Design Project

Oracle Baseball League Store Database

Project Scenario:

You are a small consulting company specializing in database development. You have just been awarded the contract to develop a data model for a database application system for a small retail store called Oracle Baseball League (OBL).

The Oracle Baseball League store serves the entire surrounding community selling baseball kit. The OBL has two types of customer, there are individuals who purchase items like balls, cleats, gloves, shirts, screen printed t-shirts, and shorts. Additionally customers can represent a team when they purchase uniforms and equipment on behalf of the team.

Teams and individual customers are free to purchase any item from the inventory list, but teams get a discount on the list price depending on the number of players. When a customer places an order we record the order items for that order in our database.

OBL has a team of three sales representatives that officially only call on teams but have been known to handle individual customer complaints.

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

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		

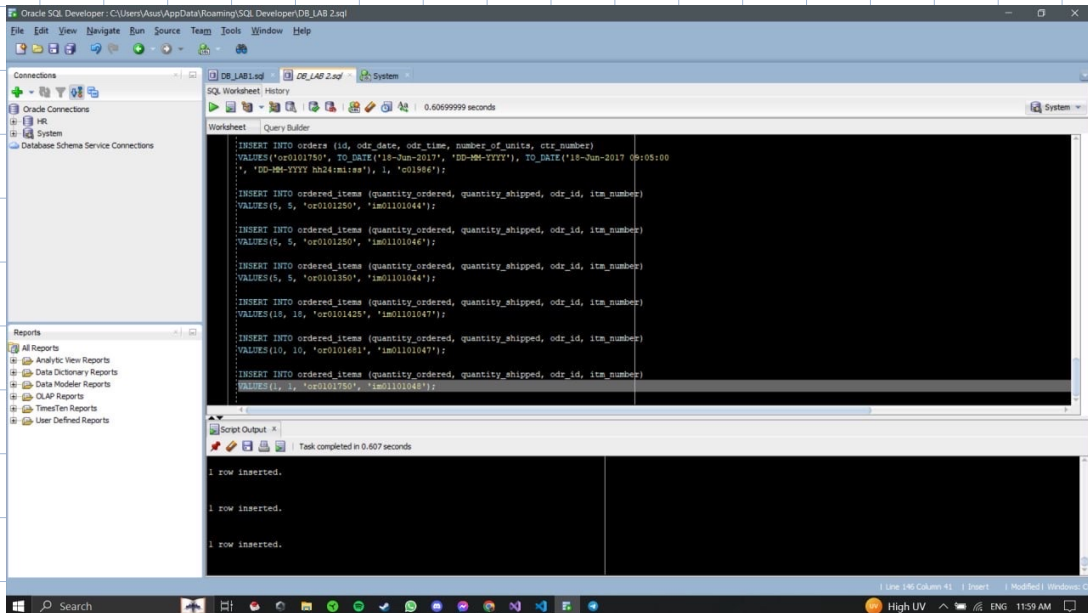
3. This information violates the check constraint that the current balance must not be less than zero. Change the current balance to 50 and rerun the query.

Part 1

1. inventory - list , iteme , price - history , sales - representatives , sales - rep - addresser , teams , customers , customers - addresser , orders , ordered - items

2. Yes

- 3.



The screenshot shows the Oracle SQL Developer interface. The main window displays a SQL script with several INSERT statements. The script is as follows:

```
INSERT INTO orders (id, odr_date, odr_time, number_of_units, ctr_number)
VALUES('or0101350', TO_DATE('18-Jun-2017', 'DD-MM-YYYY'), TO_DATE('18-Jun-2017 09:08:00', 'DD-MM-YYYY hh24:mi:ss'), 1, '001986');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id, itm_number)
VALUES(5, 5, 'or0101350', 'im01101044');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id, itm_number)
VALUES(5, 5, 'or0101350', 'im01101044');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id, itm_number)
VALUES(5, 5, 'or0101350', 'im01101044');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id, itm_number)
VALUES(18, 18, 'or0101425', 'im01101047');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id, itm_number)
VALUES(10, 10, 'or0101681', 'im01101047');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id, itm_number)
VALUES(11, 11, 'or0101750', 'im01101048');
```

Below the script, the 'Script Output' window shows the execution results:

```
Task completed in 0.607 seconds

1 row inserted.

1 row inserted.

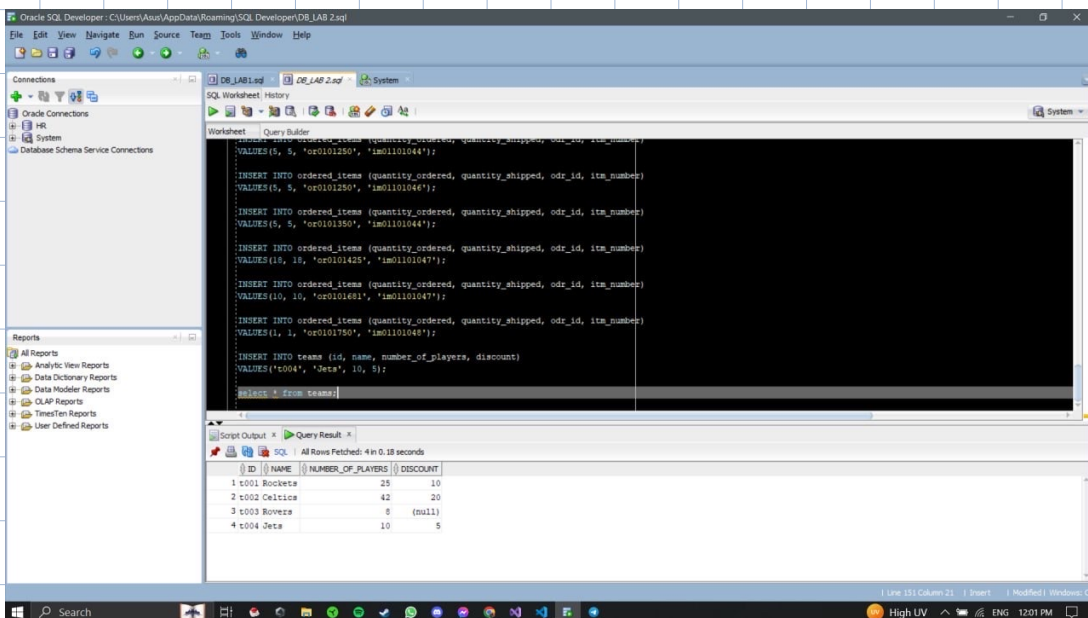
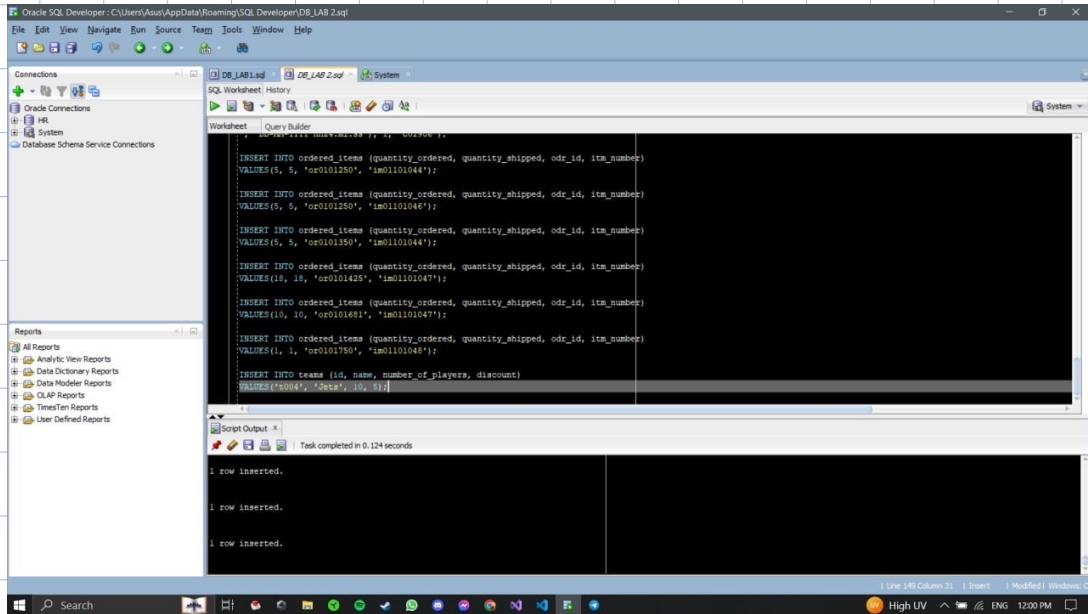
1 row inserted.
```

The interface also shows a 'Connections' panel on the left with 'Oracle Connections' and 'Database Schema Service Connections' listed. The 'Reports' panel is also visible on the left.

4. No errors occurred.

Part 2

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



2. `INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number, current_balance, loyalty_card_number)`
`VALUES ('c02001', 'brianrog@hooitech.com', 'Brian', 'Rogers', '01654564898', -5, '1c4587');`

The screenshot shows the Oracle SQL Developer interface. The main window displays a SQL script with several INSERT statements. The last statement is the one from the previous block. The 'Script Output' pane at the bottom shows the execution results: 'Task completed in 0.113 seconds' and '1 row inserted.' Below this, an error report is displayed, indicating a constraint violation: 'ORA-02290: check constraint (SYSTEM.CUS_CURRENT_BALANCE) violated'.

3. `INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number, current_balance, loyalty_card_number)`
`VALUES ('c02001', 'brianrog@hooitech.com', 'Brian', 'Rogers', '01654564898', 50, '1c4587');`

The screenshot shows the Oracle SQL Developer interface. The main window displays a SQL script with several INSERT statements. The last statement is the one from the previous block. The 'Script Output' pane at the bottom shows the execution results: 'Task completed in 0.039 seconds' and '1 row inserted.' Below this, an error report is displayed, indicating a constraint violation: 'ORA-02290: check constraint (SYSTEM.CUS_CURRENT_BALANCE) violated'.

Oracle SQL Developer: C:\Users\Asus\AppData\Roaming\SQL Developer\DB_LAB_2.sql

File Edit View Navigate Run Source Team Tools Window Help

Connections

- DB_LAB1.sql
- DB_LAB2.sql
- System

SQL Worksheet History

Worksheet Query Builder

```
INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id, itm_number)
VALUES(10, 10, 'or0101420', 'im01101047');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id, itm_number)
VALUES(10, 10, 'or0101691', 'im01101047');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id, itm_number)
VALUES(1, 1, 'or0101750', 'im01101048');

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

select * from teams;

INSERT INTO customers(ctr_number, email, first_name, last_name, phone_number, current_balance, loyalty_card_number)
VALUES('c02001', 'brianrog@hootech.com', 'Brian', 'Rogers', '01654564896', -5, 'lc4557');

INSERT INTO customers(ctr_number, email, first_name, last_name, phone_number, current_balance, loyalty_card_number)
VALUES('c02001', 'brianrog@hootech.com', 'Brian', 'Rogers', '01654564896', 50, 'lc4557');

select * from customers;
```

Script Output x Query Result x

All Rows Fetched: 6 in 0.002 seconds

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
1 c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150.5	sr01	t001	(null)
2 c00012	bjones@freemail.com	Demiifer	Jones	01905214590	0	(null)	(null)	lc1015
3 c00101	unknown@here.com	John	Doe	03214547808	987.5	sr01	t002	(null)
4 c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246990	85	(null)	(null)	lc2341
5 c01986	margal87@delphiview.com	Maria	Galant	01442706589	125.65	sr03	t003	(null)
6 c02001	brianrog@hootech.com	Brian	Rogers	01654564896	50	(null)	(null)	lc4557

Line 199 Column 25 | Insert | Modified: Windows 10

Search

Near record ENG 12:03 PM