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.

Name: Denies Wong Ke Ying A22EC0047
Section 6 Lesson 4 Exercise 2: 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.

Part 1- Updating rows to the system

1. Run the following query to view the content of the price_history table:

```
SELECT start_date, TO_CHAR (start_time, 'HH24:MI:SS'), price, end_date, TO_CHAR
(end_time, 'HH24:MI')
FROM price_history;
```

Results | Explain | Describe | Saved SQL | History

START_DATE	TO_CHAR(START_TIME,'HH24:MI:SS')	PRICE	END_DATE	TO_CHAR(END_TIME,'HH24:MI')
06/17/2017	09:00:00	4.99	-	-
11/25/2016	09:00:00	14.99	01/25/2017	17:00
01/25/2017	17:01:00	8.99	01/25/2017	19:00
01/26/2017	09:00:00	15.99	-	-
02/12/2017	12:30:00	7.99	-	-
04/25/2017	10:10:10	24.99	-	-
05/31/2017	16:35:30	1.49	-	-

7 rows returned in 0.02 seconds Download

2. Obl is going to update the price of the premium bat so you will need to write a query that will close off the current price by adding the system date values to the end_date and end_time fields. To run this query you will need to both match the item number and identify that the end date is null. This ensures that you are updating the latest price.

```
UPDATE price_history
SET end_date = CURRENT_DATE, end_time = CURRENT_TIMESTAMP
WHERE itm_number = 'im01101048' AND end_date IS NULL;
```

```
UPDATE price_history
SET end_date = CURRENT_DATE, end_time = CURRENT_TIMESTAMP
WHERE itm_number = 'im01101048' AND end_date IS NULL;
```

Results | Explain | Describe | Saved SQL | History

1 row(s) updated.

3. Rerun the select statement on the price_history table to ensure that the statement has been executed.

```
SELECT *
FROM price_history;
```

Results | Explain | Describe | Saved SQL | History

START_DATE	START_TIME	PRICE	END_DATE	END_TIME	ITM_NUMBER
06/17/2017	06/17/2016	4.99	-	-	im01101044
11/25/2016	11/25/2016	14.99	01/25/2017	01/25/2017	im01101045
01/25/2017	01/25/2017	8.99	01/25/2017	01/25/2017	im01101045
01/26/2017	01/26/2017	15.99	-	-	im01101045
02/12/2017	02/12/2017	7.99	-	-	im01101046
04/25/2017	04/25/2017	24.99	-	-	im01101047
05/31/2017	05/31/2017	149	12/19/2023	12/19/2023	im01101048

7 rows returned in 0.01 seconds Download

4. Insert a new row that will use the current date and time to set the new price of the premium bat to be 99.99.

INSERT INTO price_history(itm_number,price,start_date,start_time)
VALUES('im01101048',99.9,CURRENT_DATE,CURRENT_TIMESTAMP);

```
INSERT INTO price_history(itm_number,price,start_date,start_time)
VALUES('im01101048',99.9,CURRENT_DATE,CURRENT_TIMESTAMP);
```

Results | Explain | Describe | Saved SQL | History

1 row(s) inserted.

0.03 seconds

5. Rerun the select statement on the price_history table to ensure that the statement has been executed.

Language SQL | Rows 10 | Clear Command | Find Tables | Save

```
SELECT *
FROM price_history;
```

Results | Explain | Describe | Saved SQL | History

START_DATE	START_TIME	PRICE	END_DATE	END_TIME	ITM_NUMBER
12/19/2023	12/19/2023	99.9	-	-	im01101048
06/17/2017	06/17/2016	4.99	-	-	im01101044
11/25/2016	11/25/2016	14.99	01/25/2017	01/25/2017	im01101045
01/25/2017	01/25/2017	8.99	01/25/2017	01/25/2017	im01101045
01/26/2017	01/26/2017	15.99	-	-	im01101045
02/12/2017	02/12/2017	7.99	-	-	im01101046
04/25/2017	04/25/2017	24.99	-	-	im01101047
05/31/2017	05/31/2017	149	12/19/2023	12/19/2023	im01101048

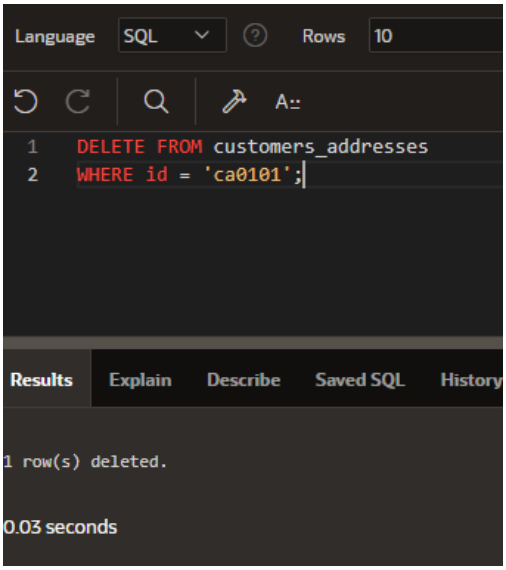
8 rows returned in 0.01 seconds Download

Part 2: Deleting rows from the system

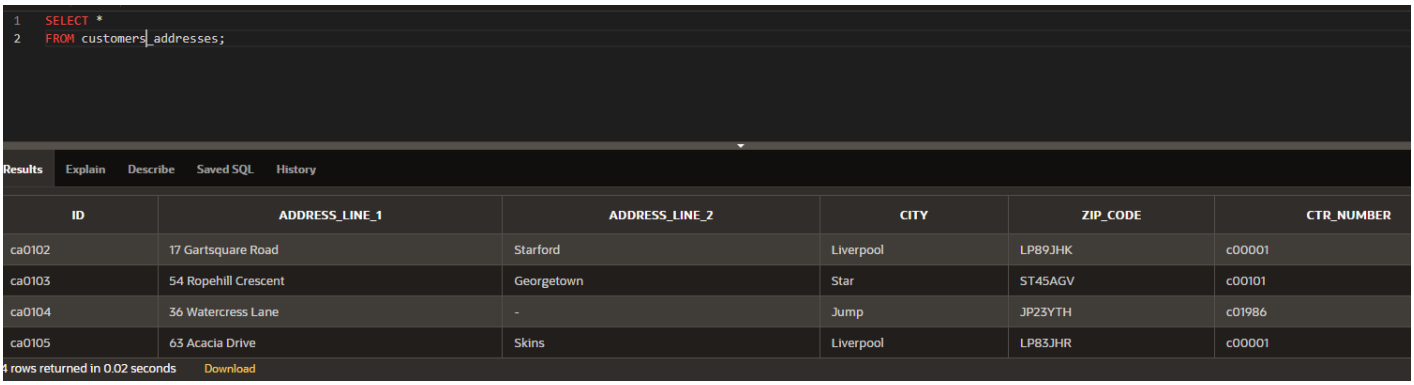
1. Bob Thornberry has contacted Obl to ask that the 83 Barrhill Drive address be removed from the system as he can longer receive parcels at this address. Write a SQL statement that will remove this address from the system.

   DELETE FROM customers_addresses

   WHERE id = 'ca0101';



2. Run a select statement on the customers_addresses table to ensure that the statement has been executed.



ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_CODE	CTR_NUMBER
ca0102	17 Gartsquare Road	Starford	Liverpool	LP89JHK	c00001
ca0103	54 Ropehill Crescent	Georgetown	Star	ST45AGV	c00101
ca0104	36 Watercress Lane	-	Jump	JP23YTH	c01986
ca0105	63 Acacia Drive	Skins	Liverpool	LP83JHR	c00001