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## **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 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;
```

- 2. Oblis 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.
- 3. Rerun the select statement on the price\_history table to ensure that the statement has been executed.
- 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.
- 5. Rerun the select statement on the price history table to ensure that the statement has been executed.

#### 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.
- 2. Run a select statement on the customers\_addresses table to ensure that the statement has been executed.

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;
```

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 = SYSDATE, end_time = current_ TIMESTAMP

WHERE ilm_number = imollolous' AND end_date is NULL;
```

3. Rerun the select statement on the price\_history table to ensure that the statement has been executed.

SELECT start date, TO CHAR ( Start time, "HH24: MI: SS'), price, and adde, TO (HAR (cnd \_ time, "HH24: MI')
FROM price\_ history;

```
START_DATE TO_CHAR(
                       PRICE END_DATE TO_CH
17/06/2017 09:00:00
                        4.99
25/11/2016 09:00:00
                      14.99 25/01/2017 17:00
25/01/2017 17:01:00
                       8.99 25/01/2017 19:00
26/01/2017 09:00:00
                      15.99
12/02/2017 12:30:00
25/04/2017 10:10:10
                      24.99
31/05/2017 16:35:30
                        149 07/11/2023 12:24
07/11/2023 12:29:43
                        99.99
```

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 (Hart\_date, Start - time, price, itm - number)
VALUES (SYSDATE, CHREENT\_ TIMESTAMP, ad-ad, "imolloloug")

5. Rerun the select statement on the price\_history table to ensure that the statement has been executed.

# SELECT + FROM PRICE HISTORY

TO_CH	END_DATE	PRICE	TO_CHAR(	START_DATE
		4.99	09:00:00	17/06/2017
17:00	25/01/2017	14.99	09:00:00	25/11/2016
19:00	25/01/2017	8.99	17:01:00	25/01/2017
		15.99	09:00:00	26/01/2017
		7.99	12:30:00	12/02/2017
		24.99	10:10:10	25/04/2017
12:24	07/11/2023	149	16:35:30	31/05/2017
		99.99	12:29:43	07/11/2023

#### 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.

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2. Run a select statement on the customers\_addresses table to ensure that the statement has been executed.

# SELECT FROM LUSTOMENT ADORESSES

ID	ADDRESS LINE 1	ADDRESS LINE 2	CITY	ZIP_COD	CTR_NU
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