

## 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:SS')  
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.

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 no 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.

## PART 1 - UPDATING ROWS TO THE SYSTEM

### QUESTION 1

	START_DATE	TO_CHAR(START_TIME,'HH24:MI:SS')	PRICE	END_DATE	TO_CHAR(END_TIME,'HH24:MI')
1	17/06/2017	09:00:00	4.99 (null)	(null)	
2	25/11/2016	09:00:00	14.99 25/01/2017	17:00	
3	25/01/2017	17:01:00	8.99 25/01/2017	19:00	
4	26/01/2017	09:00:00	15.99 (null)	(null)	
5	12/02/2017	12:30:00	7.99 (null)	(null)	
6	25/04/2017	10:10:10	24.99 (null)	(null)	
7	31/05/2017	16:35:30	149 (null)	(null)	

### QUESTION 2

UPDATE price\_history

SET end\_date = SYSDATE, end\_time = systimestamp

WHERE itm\_number = 'im01101048';

### QUESTION 3

SELECT start\_date, TO\_CHAR (start\_time, 'HH24:MI:SS'), price, end\_date,

TO\_CHAR (end\_time, 'HH24:MI'), itm\_number

FROM price\_history;

	START_DATE	TO_CHAR(START_TIME,'HH24:MI:SS')	PRICE	END_DATE	TO_CHAR(END_TIME,'HH24:MI')	ITM_NUMBER
1	17/06/2017	09:00:00	4.99 (null)	(null)		im01101044
2	25/11/2016	09:00:00	14.99 25/01/2017	17:00		im01101045
3	25/01/2017	17:01:00	8.99 25/01/2017	19:00		im01101045
4	26/01/2017	09:00:00	15.99 (null)	(null)		im01101045
5	12/02/2017	12:30:00	7.99 (null)	(null)		im01101046
6	25/04/2017	10:10:10	24.99 (null)	(null)		im01101047
7	31/05/2017	16:35:30	149 09/11/2023 02:35			im01101048

### QUESTION 4

INSERT INTO price\_history (start\_date, start\_time, price, itm\_number)

VALUES (SYSDATE, systimestamp, 99.99, 'im01101048');

### QUESTION 5

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

	START_DATE	TO_CHAR(START_TIME,'HH24:MI:SS')	PRICE	END_DATE	TO_CHAR(END_TIME,'HH24:MI:SS')	ITM_NUMBER
1	17/06/2017	09:00:00	4.99 (null)	(null)	(null)	im01101044
2	25/11/2016	09:00:00	14.99	25/01/2017	17:00	im01101045
3	25/01/2017	17:01:00	8.99	25/01/2017	19:00	im01101045
4	26/01/2017	09:00:00	15.99 (null)	(null)	(null)	im01101045
5	12/02/2017	12:30:00	7.99 (null)	(null)	(null)	im01101046
6	25/04/2017	10:10:10	24.99 (null)	(null)	(null)	im01101047
7	31/05/2017	16:35:30	149	09/11/2023	02:35	im01101048
8	09/11/2023	03:28:27	99.99 (null)	(null)	(null)	im01101048

### PART 3 - DELETING ROWS FROM THE SYSTEM

#### QUESTION 1

```
DELETE FROM customers_addresses  
WHERE address_line_1 = '83 Barrhill Drive';
```

#### QUESTION 2

```
SELECT * FROM customers_addresses;
```

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