

# BACHELOR OF COMPUTER SCIENCE(GRAPHIC AND MULTIMEDIA SOFTWARE)

**SECD2523** 

(DATABASE)

# **SEMESTER 20232024 – 1**

**SECTION 10** 

# LAB DML 1 PART 2

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#### 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;

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	149		

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;

Col	umns <b>Data</b> Indexes Co	onstraints Grants Statistics	Triggers Dependencies	DDL Sample Queries				
+ 1	+ Insert Row 🍿 Columns 🎖 Filter 🗏 Count Rows ᇦ Load Data 🔥 Download 🍃 Refresh							
	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	12/10/2023	12/10/2023	im01101048		

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

**SELECT \*** 

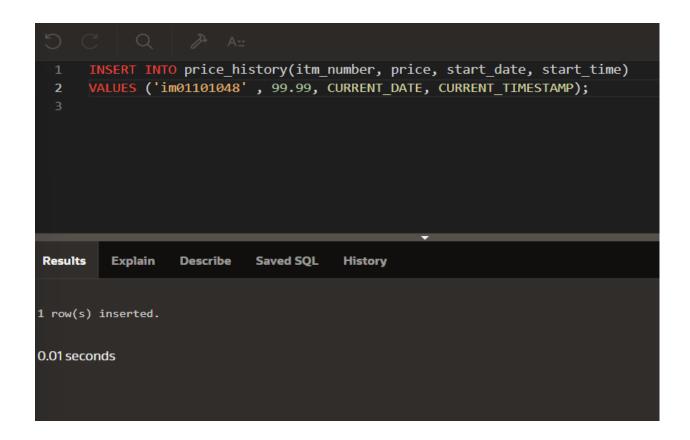
# FROM price history;

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	12/10/2023	12/10/2023	im01101048

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', 99.99, CURRENT\_DATE, CURRENT\_TIMESTAMP);



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

#### **SELECT \***

# FROM price\_history;

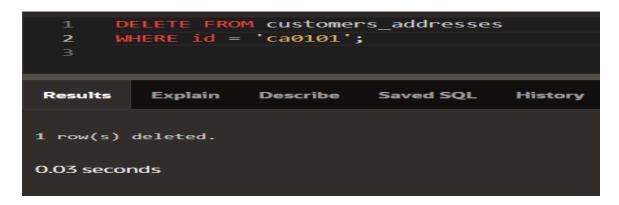
START_DATE	START_TIME	PRICE	END_DATE	END_TIME	ITM_NUMBER
06/17/2017	06/17/2016	4.99			im01101044
11/25/2016	11/25/2016	14.99	01/25/2017	01/25/2017	im01101045
01/25/2017	01/25/2017	8.99	01/25/2017	01/25/2017	im01101045
01/26/2017	01/26/2017	15.99			im01101045
02/12/2017	02/12/2017	7.99			im01101046
04/25/2017	04/25/2017	24.99			im01101047
05/31/2017	05/31/2017	149	12/10/2023	12/10/2023	im01101048
12/10/2023	12/10/2023	99.99	-	-	im01101048

## 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 an 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.

#### **SELECT \***

#### FROM customers addresses;

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