



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

**SCHOOL OF COMPUTING**  
Faculty of Engineering

**SECD2523**

**SECTION 10**

**LECTURER: ROZILAWATI BINTI DOLLAH @ MD ZAIN**

**PROJECT TITLE:**

**SQL LAB2 - DML 1 PART 2**

**(DDL)**

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## 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;
```

```
1  SELECT start_date, TO_CHAR(start_time,'HH24:MI:SS'), price, end_date, TO_CHAR(end_time,'HH24:MI')
2  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	-	-

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

START_DATE	TO_CHAR(START_TIME,'HH24:MI:SS')	PRICE	END_DATE	TO_CHAR(END_TIME,'HH24:MI')
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	-	-

7 rows returned in 0.04 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;
```

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

Results Explain Describe Saved SQL History

1 row(s) updated.

0.03 seconds

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	12/06/2023	12/06/2023	im01101048

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

SELECT \*  
FROM price\_history;

```
1 SELECT *
2 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

```

1 SELECT *
2 FROM price_history;

```

START_DATE	START_TIME	PRICE	END_DATE	END_TIME	ITM_NUMBER
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	12/06/2023	12/06/2023	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) VALUE ('im01101048', 99.99, CURRENT_DATE, CURRENT_TIMESTAMP);
```

```

1 INSERT INTO price_history (itm_number, price, start_date, start_time)
2 VALUES ('im01101048', 99.99, CURRENT_DATE, CURRENT_TIMESTAMP);

```

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

1 row(s) inserted.  
0.01 seconds

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

```
SELECT *
FROM price_history;
```

```

1 SELECT *
2 FROM price_history;
3

```

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

1SELECT \*  
2FROM price\_history;  
3

Results

Explain

Describe

Saved SQL

History

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	12/06/2023	12/06/2023	im01101048
12/06/2023	12/06/2023	99.99	-	-	im01101048

8 rows returned in 0.00 seconds

Download

Q Type to filter... + v

**PRICE\_HISTORY**

Columns Data Indexes Constraints Grants Statistics Triggers Dependencies DDL Sample Queries

+ Insert Row Columns... Filter... Count Rows 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	12/06/2023	12/06/2023	im01101048

1 cells selected

## Part 2: Deleting Rows from the System

1. Bob Thornberry has contacted obl to ask that the 83 Barhill 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';
```

```

1 DELETE FROM customers_addresses
2 WHERE id = 'ca0101';

```

Results	Explain	Describe	Saved SQL	History
1 row(s) deleted.				
0.03 seconds				

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

```
SELECT *  
FROM customers_addresses;
```

```
1  SELECT *  
2  FROM customers_addresses;
```

Results					
Explain Describe Saved SQL History					
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

4 rows returned in 0.02 seconds [Download](#)