UTM UNIVERSITI TEKNOLOGI MALAYSIA

FACULTY OF COMPUTING
UTM Johor Bahru

SECD2523
SECTION 10

LECTURER: ROZILAWATI BINTI DOLLAH @ MD ZAIN

PROJECT TITLE:
SQL LAB2
(DML1)
PART1

NAME	MATRIC NUMBER
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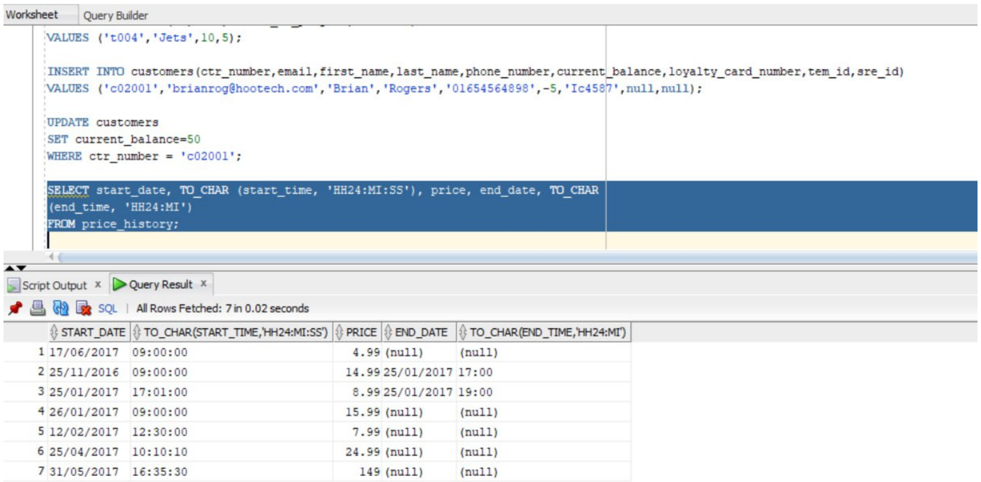
Part 1- Updating rows to the system

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;



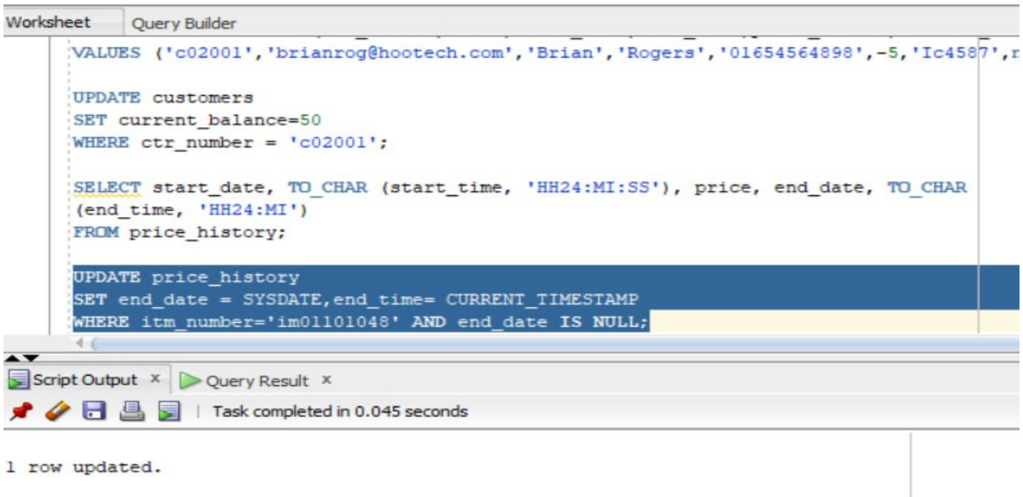
```
VALUES ('t004','Jets',10,5);

INSERT INTO customers(ctr_number,email,first_name,last_name,phone_number,current_balance,loyalty_card_number,tem_id,sre_id)
VALUES ('c02001','brianrog@hootech.com','Brian','Rogers','01654564898',-5,'Ic4587',null,null);

UPDATE customers
SET current_balance=50
WHERE ctr_number = 'c02001';

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

All Rows Fetched: 7 in 0.02 seconds

	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)

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_TIMESTMAP
WHERE itm_number =’im01101048’ AND end_date IS NULL;



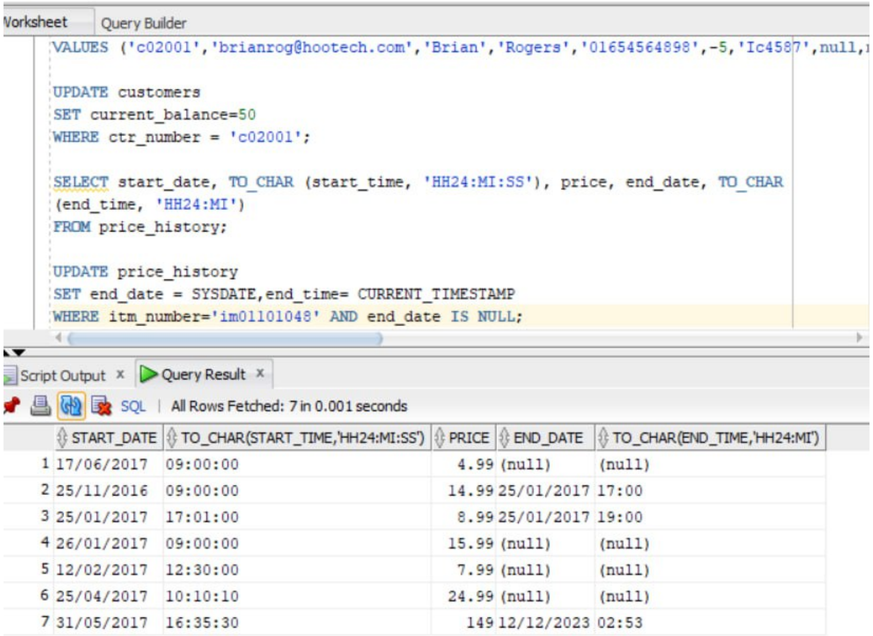
```
VALUES ('c02001','brianrog@hootech.com','Brian','Rogers','01654564898',-5,'Ic4587',r

UPDATE customers
SET current_balance=50
WHERE ctr_number = 'c02001';

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

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

Task completed in 0.045 seconds

```
1 row updated.
```

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

SELECT*
FROM price_history;



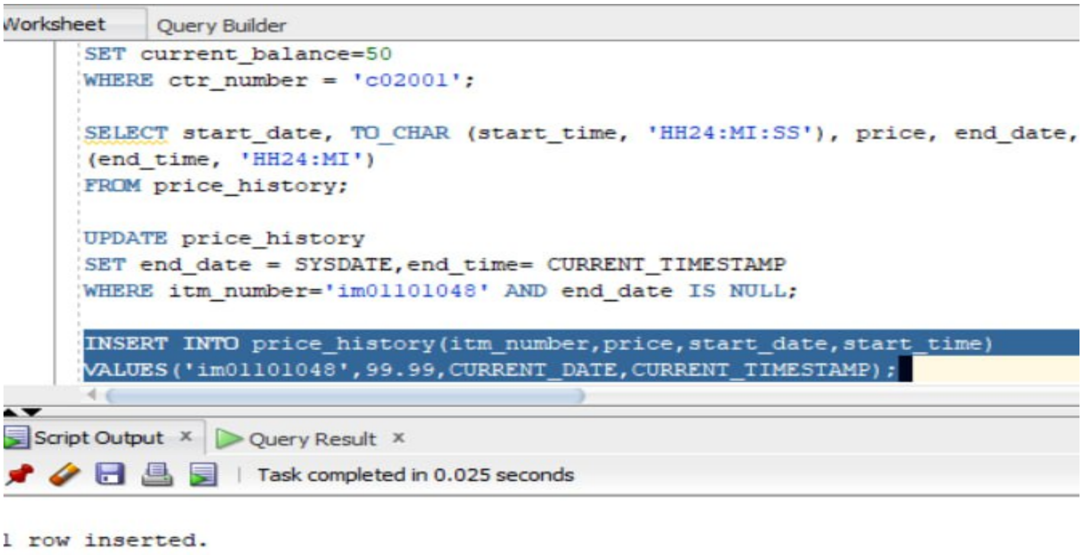
```
VALUES ('c02001','brianrog@hootech.com','Brian','Rogers','01654564898',-5,'Ic4587',null,

UPDATE customers
SET current_balance=50
WHERE ctr_number = 'c02001';

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

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

All Rows Fetched: 7 in 0.001 seconds

	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	12/12/2023	02:53

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);



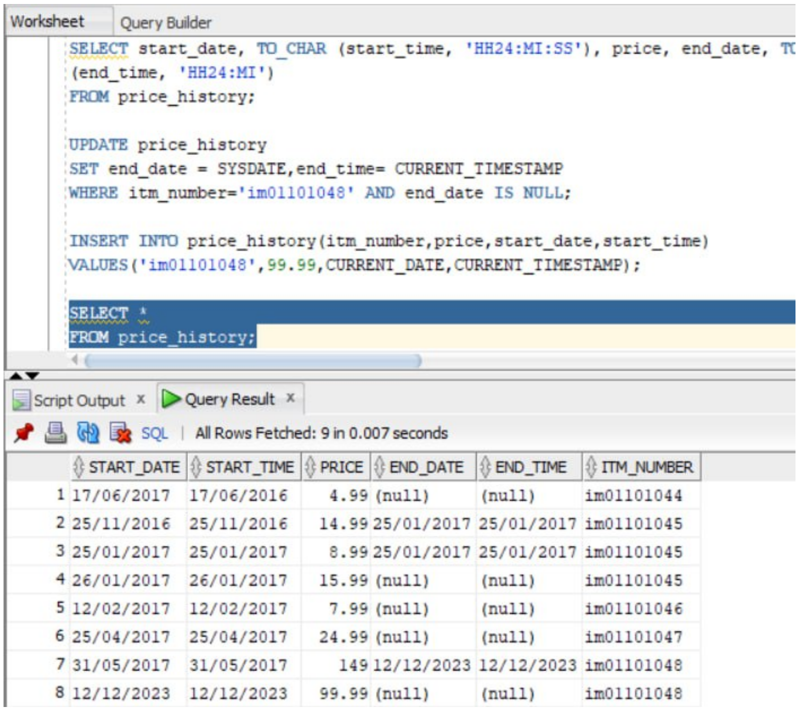
```
SET current_balance=50
WHERE ctr_number = 'c02001';

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

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

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

Task completed in 0.025 seconds

```
1 row inserted.
```

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

```
SELECT *
FROM price history;
```



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

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

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

SELECT *
FROM price_history;
```

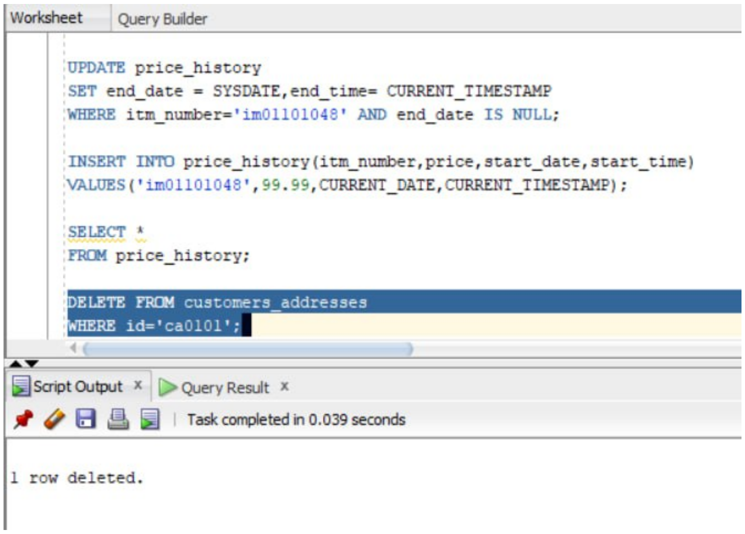
All Rows Fetched: 9 in 0.007 seconds

	START_DATE	START_TIME	PRICE	END_DATE	END_TIME	ITM_NUMBER
1	17/06/2017	17/06/2016	4.99	(null)	(null)	im01101044
2	25/11/2016	25/11/2016	14.99	25/01/2017	25/01/2017	im01101045
3	25/01/2017	25/01/2017	8.99	25/01/2017	25/01/2017	im01101045
4	26/01/2017	26/01/2017	15.99	(null)	(null)	im01101045
5	12/02/2017	12/02/2017	7.99	(null)	(null)	im01101046
6	25/04/2017	25/04/2017	24.99	(null)	(null)	im01101047
7	31/05/2017	31/05/2017	149	12/12/2023	12/12/2023	im01101048
8	12/12/2023	12/12/2023	99.99	(null)	(null)	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 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’;
```



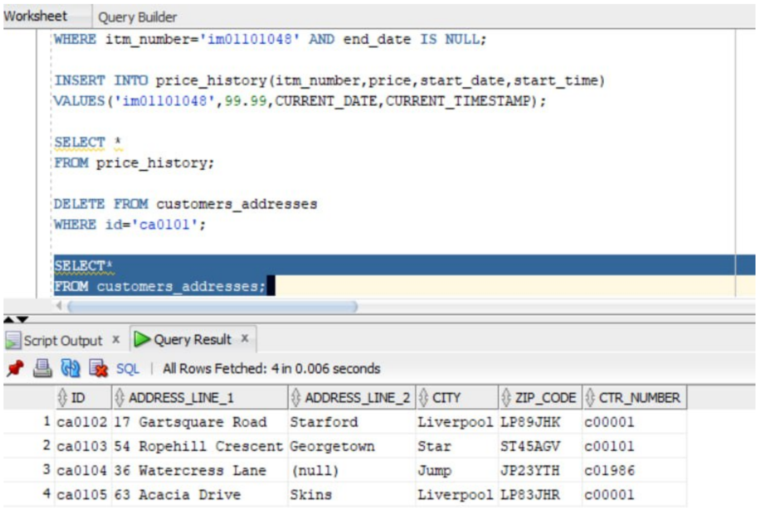
```
UPDATE price_history
SET end_date = SYSDATE,end_time= CURRENT_TIMESTAMP
WHERE itm_number='im01101048' AND end_date IS NULL;

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

SELECT *
FROM price_history;

DELETE FROM customers_addresses
WHERE id='ca0101';
```

Task completed in 0.039 seconds

```
1 row deleted.
```

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

SELECT*
FROM customers_addresses;



```
WHERE itm_number='im01101048' AND end_date IS NULL;

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

SELECT *
FROM price_history;

DELETE FROM customers_addresses
WHERE id='ca0101';

SELECT*
FROM customers_addresses;
```

All Rows Fetched: 4 in 0.006 seconds

	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