



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SUBJECT CODE : SECD2523-01

SUBJECT NAME : DATABASE

SEMESTER : 1-2023/2024

TITLE : ORACLE SQL2 -DML1 (PART 2)

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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;
```

The screenshot shows the Oracle APEX SQL Workshop interface. The SQL Commands tab is active, displaying a query that selects data from the price_history table. The query is: `SELECT start_date, TO_CHAR(start_time, 'HH24:MI:SS'), price, end_date, TO_CHAR (end_time, 'HH24:MI') FROM price_history;`. The Results tab is selected, showing a table with 7 rows and 5 columns. The columns are: START_DATE, TO_CHAR(START_TIME, 'HH24:MI:SS'), PRICE, END_DATE, and TO_CHAR(END_TIME, 'HH24:MI'). The data is as follows:

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	14.9	-	-

The screenshot shows the Oracle APEX Object Browser interface. The left sidebar shows a tree of database objects, with PRICE_HISTORY selected. The main area displays the table structure and data. The table has 7 columns: START_DATE, START_TIME, PRICE, END_DATE, END_TIME, and ITEM_NUMBER. The data is as follows:

START_DATE	START_TIME	PRICE	END_DATE	END_TIME	ITEM_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	14.9			im01101048

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.

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The user is logged in as 'farishah Alias' with the email 'databaseinformat...'. The 'SQL Commands' tab is active, showing a query to update the 'price_history' table. The query is as follows:

```
1 UPDATE price_history
2 SET end_date = SYSDATE, end_time = SYSDATE
3 WHERE itm_number = 'im01101048' AND end_date IS NULL;
4
```

The 'Results' tab shows '0 row(s) updated.' and '0.04 seconds'. The bottom status bar indicates the user's email 'farishahainzatu@graduate.utm.my', the database 'databaseinformat...', and the version 'Oracle APEX 23.2.0-17'.

The screenshot shows the APEX Object Browser interface. The 'Object Browser' tab is active, displaying a tree view of database objects. The 'PRICE_HISTORY' table is selected, and its data is displayed in a table view. The table has columns: 'START_DATE', 'START_TIME', 'PRICE', 'END_DATE', 'END_TIME', and 'ITM_NUMBER'. The data is as follows:

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	11/07/2023	11/07/2023	im01101048

The bottom status bar indicates the user's email 'farishahainzatu@graduate.utm.my', the database 'databaseinformat...', and the version 'Oracle APEX 23.2.0-17'.

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

The screenshot displays the Oracle APEX SQL Workshop interface. At the top, the navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'farishah Alias' are also present. The 'SQL Commands' section shows a query: `SELECT start_date, TO_CHAR (start_time, 'HH24:MI:SS') price, end_date, TO_CHAR (end_time, 'HH24:MI') FROM price_history ;`. Below the query, the 'Results' tab is active, displaying a table with four columns: 'START_DATE', 'PRICE', 'END_DATE', and 'TO_CHAR(END_TIME, 'HH24:MI')'. The table contains eight rows of data. The footer shows the user 'farishahainzatu@graduate.utm.my', the database 'databasebioinformatics', and the Oracle APEX version '23.2.0-17'.

START_DATE	PRICE	END_DATE	TO_CHAR(END_TIME, 'HH24:MI')
06/17/2017	09:00:00	-	-
11/25/2016	09:00:00	01/25/2017	17:00
01/25/2017	17:01:00	01/25/2017	19:00
01/26/2017	09:00:00	-	-
02/12/2017	12:30:00	-	-
04/25/2017	10:10:10	-	-
05/31/2017	16:35:30	11/07/2023	07:51

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

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'farishah Alias' are on the right. The 'SQL Commands' tab is active, showing a schema dropdown set to 'WKSP_DATABASEIOINFORM...'. Below the command editor, the 'Results' tab shows the execution outcome: '1 row(s) inserted.' and '0.02 seconds'.

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

Results: 1 row(s) inserted.
0.02 seconds

The screenshot shows the APEX SQL Workshop interface with the 'Object Browser' tab active. The 'PRICE_HISTORY' table is selected, and the 'Data' tab is shown. The table data is displayed in a grid with columns: START_DATE, START_TIME, PRICE, END_DATE, END_TIME, and ITM_NUMBER. The last row shows a new entry with a price of 99.99 and dates 11/07/2023.

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	11/07/2023	11/07/2023	im01101048
11/07/2023	11/07/2023	99.99			im01101048

1 cells selected 1 - 8

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

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'farishah Alias' are on the right. The 'SQL Commands' section shows a query: `SELECT start_date, TO_CHAR (start_time, 'HH24:MI:SS'), price, end_date, TO_CHAR (end_time, 'HH24:MI') FROM price_history;`. The 'Results' tab displays 8 rows of data.

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	11/07/2023	07:51
11/07/2023	08:02:05	99.99	-	-

8 rows returned in 0.01 seconds

PART2 - 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

The screenshot shows the Oracle APEX SQL Workshop interface with the 'CUSTOMERS_ADDRESSES' table selected. The table has columns: ID, ADDRESS_LINE_1, ADDRESS_LINE_2, CITY, ZIP_CODE, and CTR_NUMBER. The first row, with ID 'ca0101' and address '83 Barrhill Drive', is highlighted with a blue selection icon.

ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_CODE	CTR_NUMBER
ca0101	83 Barrhill Drive		Liverpool	LP79HJK	c00001
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

APEX

App Builder

SQL Workshop

Team Development

Gallery

Search

FA

farishah Alias

databasebioinform...

SQL Commands

SchemaWKSP_DATABASEIOINFOF

LanguageSQL

Rows10

Clear Command

Find Tables

Save

Run

A::

1DELETE FROM customers_addresses

2WHERE address_line_1 = '83 Barrhill Drive' AND ctr_number = 'c00001';

3

Results

Explain

Describe

Saved SQL

History

1 row(s) deleted.

0.03 seconds

farishahainzatuhsna@graduate.utim.my

databasebioinformatics

en

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Oracle APEX 23.2.0-17

SQL Workshop

Team Development

Gallery

Search

FA

farishah Alias

databasebioinform...

SchemaWKSP_DATABASEIOINFOF

CUSTOMERS_ADDRESSES

ColumnsDataIndexesConstraintsGrantsStatisticsTriggersDependenciesDDLSample Queries

+ Insert Row

Columns...

Filter...

Count Rows

Load Data

Download

Refresh

	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	65 Acacia Drive	Skins	Liverpool	LP83JHR	c00001

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

