

EXERCISE 1 : DML

Part 2 - Inserting rows to the system

1. INSERT INTO TERMS
VALUES ('t004', 'Jets', 10.5);

2. INSERT INTO CUSTOMERS
VALUES ('c02001', 'brianr@hootch.com', 'Brian', 'Rogers', '01654564898', 5, NULL, NULL, '1c524');

3. INSERT INTO CUSTOMERS
VALUES ('c02001', 'brianr@hootch.com', 'Brian', 'Rogers', '01654564898', 50, NULL, NULL, '1c524');

EXERCISE 2 : DML

Part 1 - Updating rows to the system

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

2. UPDATE price_history
SET end_date = SYSDATE, end_time = SYSDATE
WHERE item_number = 'im 01101048' AND end_date IS NULL;

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

4. INSERT INTO PRICE_HISTORY (START_DATE, START_TIME, PRICE, ITEM_NUMBER)
VALUES (SYSDATE, SYSDATE, 99.99, 'im 01101048');

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

Part 2 - Deleting rows from the system

1. DELETE FROM CUSTOMERS_ADDRESSES
WHERE ADDRESS_LINE_1 = '83 Barrhill Drive';

2. SELECT * FROM CUSTOMERS_ADDRESSES

Section 6 Lesson 4 Exercise 1: Data Manipulation Language

Part 2- Running a script to populate the tables

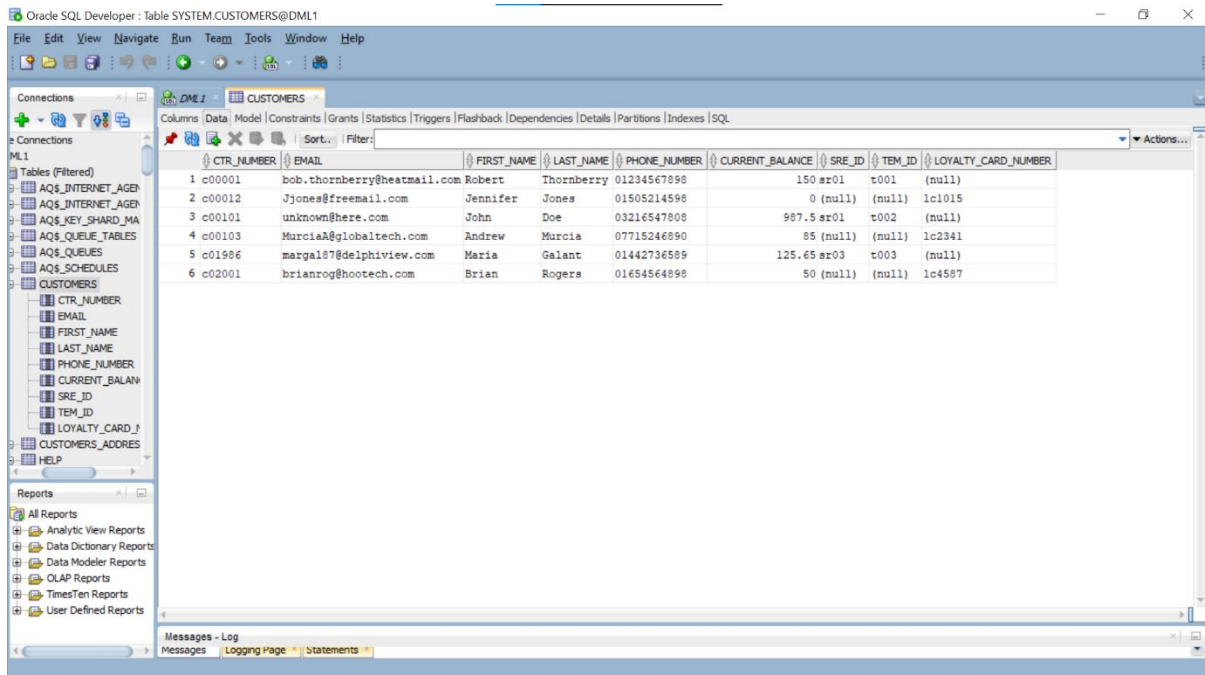
After adding Jets team to the system

The screenshot shows the Oracle SQL Developer interface. The title bar indicates the connection is 'Table SYSTEM.TEAMS@DML1'. The main window displays the 'TEAMS' table data in the 'Data' tab. The table has four columns: ID, NAME, NUMBER_OF_PLAYERS, and DISCOUNT. The data is as follows:

ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT
1	t001 Rockets	25	10
2	t002 Celtics	42	20
3	t003 Rovers	8	(null)
4	t004 Jets	10	5

The left pane shows the 'Connections' and 'Reports' sections. The 'Connections' section lists various database connections, including 'REPL_SUPPORT_MATE', 'REPL_VALID_COMPAT', 'ROLLING\$CONNECTIC', 'ROLLING\$DATABASES', 'ROLLING\$DIRECTIVES', 'ROLLING\$EVENTS', 'ROLLING\$PARAMETER', 'ROLLING\$PLAN', 'ROLLING\$STATISTICS', 'ROLLING\$STATUS', 'SALES_REP_ADDRESS', 'SALES_REPRESENTAT', 'SCHEDULER_JOB_ARC', 'SCHEDULER_PROGRA', 'SQLPLUS_PRODUCT_F', and 'TEAMS'. The 'Reports' section shows a tree view of reports, including 'All Reports', 'Analytic View Reports', 'Data Dictionary Reports', 'Data Modeler Reports', 'OLAP Reports', 'TimesTen Reports', and 'User Defined Reports'. The bottom pane shows the 'Messages - Log' section with tabs for 'Messages', 'Logging Page', and 'Statements'.

After adding new customer name Brian Rogers to the system



Oracle SQL Developer: Table SYSTEM.CUSTOMERS@DML1

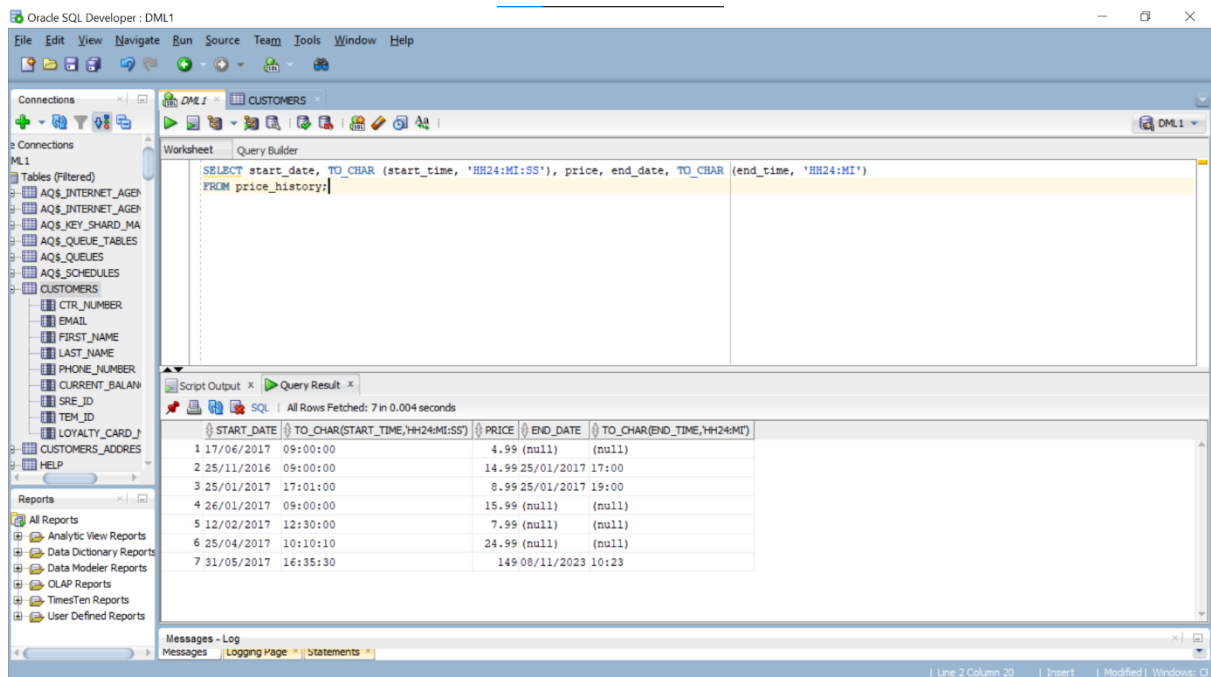
Columns: CTR_NUMBER, EMAIL, FIRST_NAME, LAST_NAME, PHONE_NUMBER, CURRENT_BALANCE, SRE_ID, TEM_ID, LOYALTY_CARD_NUMBER

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
1 c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150 sr01	t001	(null)	(null)
2 c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0 (null)	(null)	(null)	1c1015
3 c00101	unknown@here.com	John	Doe	03216547808	987.5 sr01	t002	(null)	(null)
4 c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85 (null)	(null)	(null)	1c2341
5 c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65 sr03	t003	(null)	(null)
6 c02001	brianrog@hotech.com	Brian	Rogers	01654564898	50 (null)	(null)	(null)	1c4587

Section 6 Lesson 4 Exercise 2: Data Manipulation Language

Part 1- updating rows to the system

After running the following query to view the content of the price history table



Oracle SQL Developer: DML1

Worksheet Query Builder

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

Script Output x Query Result x

All Rows Fetched: 7 in 0.004 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)	(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)	(null)
5 12/02/2017	12:30:00	7.99 (null)	(null)	(null)
6 25/04/2017	10:10:10	24.99 (null)	(null)	(null)
7 31/05/2017	16:35:30	149.08	08/11/2023	10:23

After updating the end_date and end_time to system date values for premium bat item.

After insert new row to PRICE_HISTORY table with current date and time to set the price of the premium bat to 99.99

Oracle SQL Developer: Table SYSTEM.PRICE_HISTORY@DML1

Columns: Data | Model | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

	START_DATE	START_TIME	PRICE	END_DATE	END_TIME	ITEM_NUMBER
1	17/06/2017	17/06/2016	4.99 (null)	(null)	(null)	im01101044
2	25/11/2016	25/11/2016	14.99 25/01/2017	25/01/2017	25/01/2017	im01101045
3	25/01/2017	25/01/2017	8.99 25/01/2017	25/01/2017	25/01/2017	im01101045
4	26/01/2017	26/01/2017	15.99 (null)	(null)	(null)	im01101045
5	12/02/2017	12/02/2017	7.99 (null)	(null)	(null)	im01101046
6	25/04/2017	25/04/2017	24.99 (null)	(null)	(null)	im01101047
7	31/05/2017	31/05/2017	149 08/11/2023	08/11/2023	08/11/2023	im01101048
8	08/11/2023	08/11/2023	99.99 (null)	(null)	(null)	im01101048

Messages - Log
Messages | Logging Page | Statements

After rerun the select statement on the PRICE_HISTORY table

Oracle SQL Developer: DML1

Worksheet | Query Builder

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

Script Output x Query Result x

SQL | All Rows Fetched: 8 in 0.002 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)	(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)	(null)
5	12/02/2017	12:30:00	7.99 (null)	(null)	(null)
6	25/04/2017	10:10:10	24.99 (null)	(null)	(null)
7	31/05/2017	16:35:30	149 08/11/2023	10:23	
8	08/11/2023	23:37:13	99.99 (null)	(null)	(null)

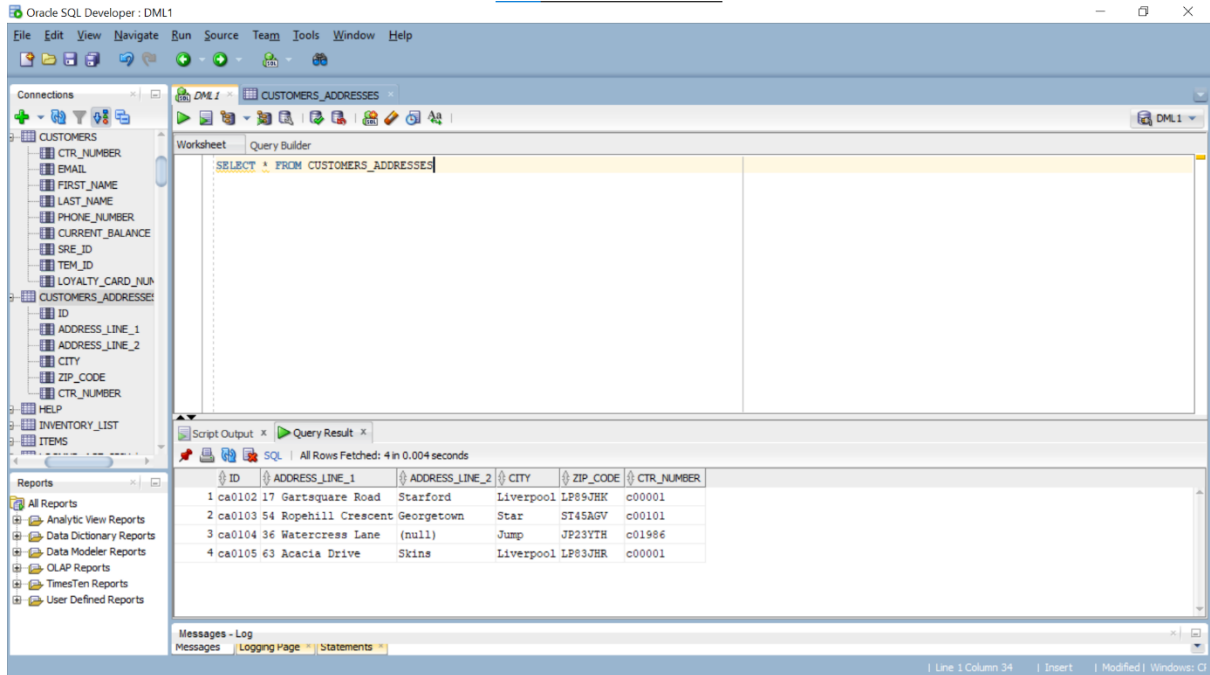
Messages - Log
Messages | Logging Page | Statements

Click on an identifier with the Control key down to perform "Go to Declaration"

Line 2 Column 20 | Insert | Modified | Windows: O

Part 2: Deleting rows from the system

Select statement after deleting one row with the 83 Barrhill Drive address



The screenshot shows the Oracle SQL Developer interface. The main window displays a query result for the `CUSTOMERS_ADDRESSES` table. The query is `SELECT * FROM CUSTOMERS_ADDRESSES`. The result set contains 4 rows. The status bar at the bottom indicates "All Rows Fetched: 4 in 0.004 seconds".

ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_CODE	CTR_NUMBER
1	ca0102	17 Gartsquare Road	Starford	Liverpool L695JHK	c00001
2	ca0103	54 Ropehill Crescent	Georgetown	Star ST45AGV	c00101
3	ca0104	36 Watercross Lane	(null)	Jump JP23YTH	c01986
4	ca0105	63 Acacia Drive	Skins	Liverpool LP83JHR	c00001