

Database Design Project

Oracle Baseball League Store Database

Project Scenario:

You are a small consulting company specializing in database development. You have just been awarded the contract to develop a data model for a database application system for a small retail store called Oracle Baseball League (OBL).

The Oracle Baseball League store serves the entire surrounding community selling baseball kit. The OBL has two types of customer, there are individuals who purchase items like balls, cleats, gloves, shirts, screen printed t-shirts, and shorts. Additionally customers can represent a team when they purchase uniforms and equipment on behalf of the team.

Teams and individual customers are free to purchase any item from the inventory list, but teams get a discount on the list price depending on the number of players. When a customer places an order we record the order items for that order in our database.

OBL has a team of three sales representatives that officially only call on teams but have been known to handle individual customer complaints.

Section 6 Lesson 4 Exercise 1: 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 tables.

Part 1 : Running a script to populate the tables.

You have to consider the order of the tables when populating them. A table that has a foreign key field cannot be populated before the related table with the primary key.

1. Use the table mapping document and list the order that you would use to populate the tables.
2. Open the “sports data.sql” and look at the order the data is being added there, does your list match? This file can be found in the Section 6 Lesson 4 interaction (sports data.zip) and must first be extracted.
3. Run the “sports data.sql” script in APEX to populate your tables
4. Check that no errors occurred when you ran the script.

The screenshot displays the Oracle APEX SQL Workshop Results page. The browser address bar shows the URL: <https://apex.oracle.com/pls/apex/r/apex/sql-workshop/results?session=101638671389506>. The page header indicates the tab was snoozed to save memory. The main content area shows a table of execution results for 45 statements. The table has four columns: Statement ID, Elapsed Time (in seconds), the SQL statement text, and the result status. All statements are successful, with 1 row(s) inserted for each. The statements are grouped by table: customers, customers_addresses, orders, and ordered_items. The bottom of the page shows a summary: 47 Statements Processed, 47 Successful, and 0 With Errors.

Statement ID	Elapsed Time (s)	SQL Statement	Result
31	0.00	INSERT INTO customers (ctr_number, email, first_name, last_n	1 row(s) inserted.
32	0.01	INSERT INTO customers_addresses (id, address_line_1, address	1 row(s) inserted.
33	0.01	INSERT INTO customers_addresses (id, address_line_1, address	1 row(s) inserted.
34	0.00	INSERT INTO customers_addresses (id, address_line_1, address	1 row(s) inserted.
35	0.00	INSERT INTO customers_addresses (id, address_line_1, address	1 row(s) inserted.
36	0.01	INSERT INTO customers_addresses (id, address_line_1, address	1 row(s) inserted.
37	0.02	INSERT INTO orders (id, odr_date, odr_time, number_of_units,	1 row(s) inserted.
38	0.00	INSERT INTO orders (id, odr_date, odr_time, number_of_units,	1 row(s) inserted.
39	0.00	INSERT INTO orders (id, odr_date, odr_time, number_of_units,	1 row(s) inserted.
40	0.01	INSERT INTO orders (id, odr_date, odr_time, number_of_units,	1 row(s) inserted.
41	0.00	INSERT INTO orders (id, odr_date, odr_time, number_of_units,	1 row(s) inserted.
42	0.02	INSERT INTO ordered_items (quantity_ordered, quantity_shippe	1 row(s) inserted.
43	0.00	INSERT INTO ordered_items (quantity_ordered, quantity_shippe	1 row(s) inserted.
44	0.00	INSERT INTO ordered_items (quantity_ordered, quantity_shippe	1 row(s) inserted.
45	0.01	INSERT INTO ordered_items (quantity_ordered, quantity_shippe	1 row(s) inserted.

Download

47 Statements Processed 47 Successful 0 With Errors

Part 2- Inserting rows to the system

1. Add a new team to the system

id	name	Number_of_players	discount
t004	Jets	10	5

Script Editor

apex.oracle.com/pls/apex/r/apex/sql-workshop/script-editor?p60_file_id=12287193150153231130&session=4187931436386

APEX App Builder SQL Workshop Team Development Gallery

Script Name: sports data (3).sql

Cancel Download Delete Save Create App Run

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141
142 INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id, itm_number)
143 VALUES(10, 10, 'or0101681', 'im01101047');
144
145 INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id, itm_number)
146 VALUES(1, 1, 'or0101750', 'im01101048');
147
148 INSERT INTO teams (id, name, number_of_players, discount)
149 VALUES ('t004', 'Jets', 10, 5);
150
```

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The screenshot shows the Oracle APEX SQL Workshop interface. The left sidebar contains a tree view of database objects, with 'TEAMS' highlighted under the 'Tables' section. The main area displays the 'TEAMS' table data in a grid format. The table has four columns: ID, NAME, NUMBER_OF_PLAYERS, and DISCOUNT. The data rows are as follows:

ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT
t001	Rockets	25	10
t002	Celtics	42	20
t003	Rovers	8	
t004	Jets	10	5

2. Add a new Customer with the following details to the system

ctr number	email	First name	Last name	Phone number	Current balance	Loyalty card number	tem id	sre id
c02001	brianrog@hootech.com	Brian	Rogers	01654564898	-5	lc4587		

Script Editor

apex.oracle.com/pls/apex/r/apex/sql-workshop/script-editor?p60_file_id=12287193150153231130&session=4187931436386

APEX

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SQL Scripts \ Script Editor

Script Name sports data (3).sql

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INSERT INTO teams (id, name, number_of_players, discount)

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

INSERT INTO customers(ctr_number, email, first_name, last_name, phone_number, current_balance,loyalty_card_number)

VALUES ('c02001', 'brianrog@hoootech.com', 'Brian', 'Rogers', '01654564898', -5, 'lc4587');

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Object Browser

apex.oracle.com/pls/apex/r/apex/sql-workshop/ob?session=4187931436386

APEX App Builder SQL Workshop Team Development Gallery

Object Browser Schema WKSP_RAOMAN0702

Tables

- CUSTOMERS
- CUSTOMERS_ADDRESSES
- INVENTORY_LIST
- ITEMS
- ORDERED_ITEMS
- ORDERS
- PRICE_HISTORY
- SALES_REPRESENTATIVES
- SALES_REP_ADDRESSES
- TEAMS

Views

Indexes

Sequences

Types

Packages

Procedures

Functions

Triggers

Database Links

Materialized Views

CUSTOMERS

Columns Data Indexes Constraints Grants Statistics Triggers Dependencies DDL Sample Queries

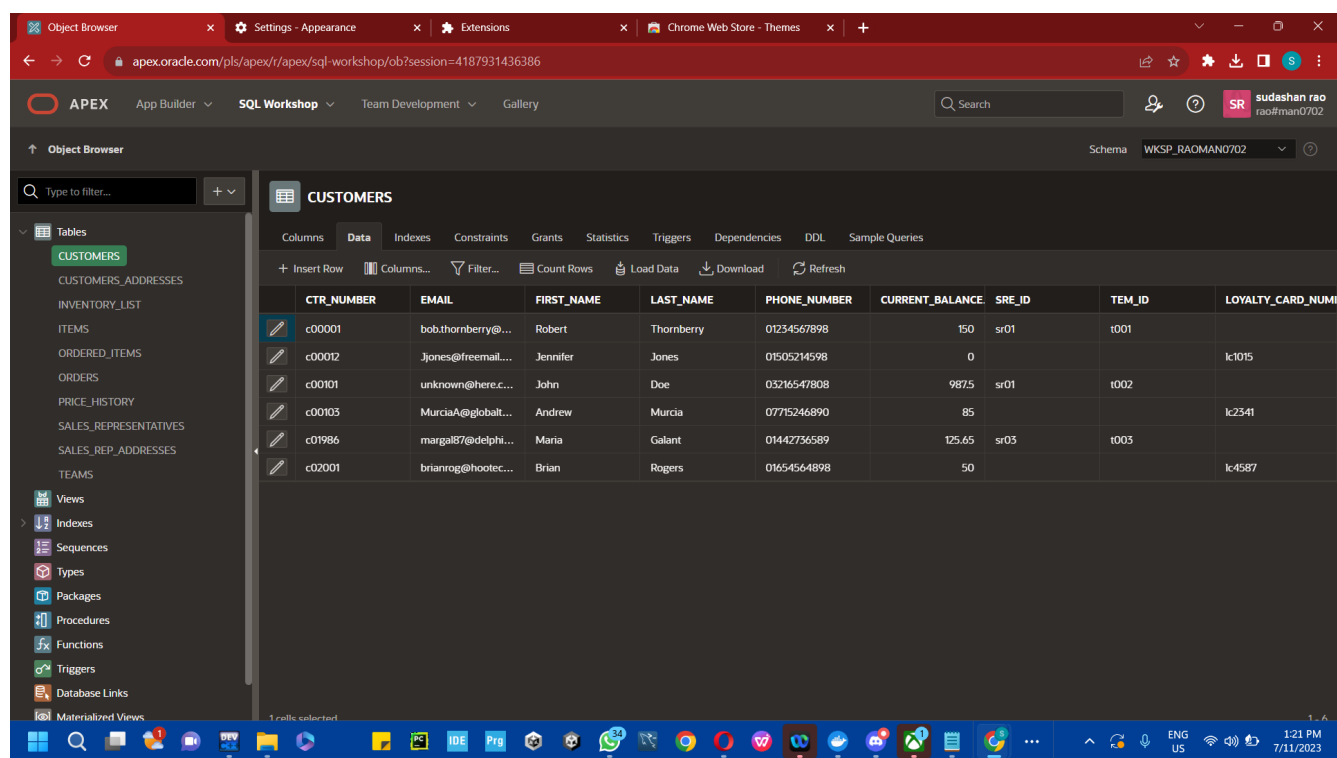
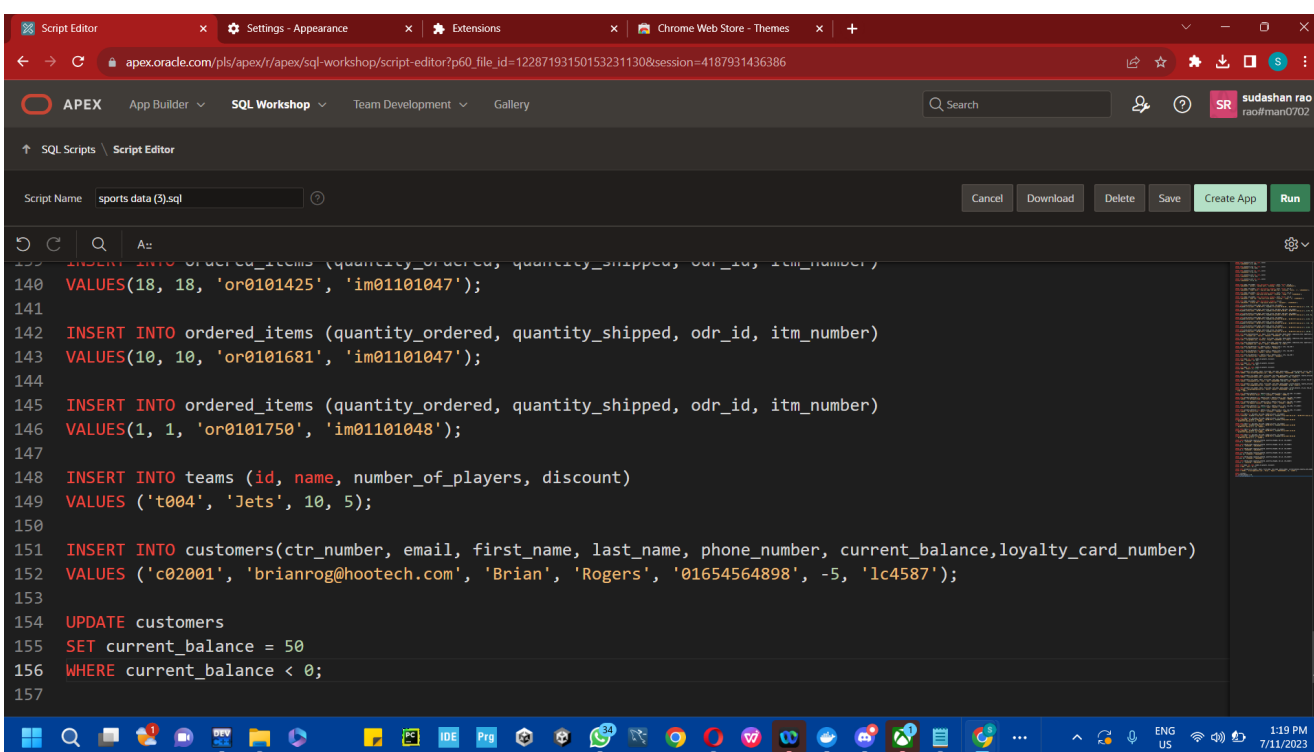
+ Insert Row Columns... Filter... Count Rows Load Data Download Refresh

	CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUM
	c00001	bob.thornberry@...	Robert	Thornberry	01234567898	150	sr01	t001	
	c00012	Jjones@freemail...	Jennifer	Jones	01505214598	0			lc1015
	c00101	unknown@here.c...	John	Doe	03216547808	987.5	sr01	t002	
	c00103	MurciaA@globalt...	Andrew	Murcia	07715246890	85			lc2341
	c01986	margal87@delphi...	Maria	Galant	01442736589	125.65	sr03	t003	
	c02001	brianrog@hootec...	Brian	Rogers	01654564898	-5			lc4587

1 cells selected

1:02 PM 7/11/2023

- This information violates the check constraint that the current balance must not be less than zero. Change the current balance to 50 and rerun the query.



Database Design Project

Oracle Baseball League Store Database

Project Scenario:

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Teams and individual customers are free to purchase any item from the inventory list, but teams get a discount on the list price depending on the number of players. When a customer places an order we record the order items for that order in our database.

OBL has a team of three sales representatives that officially only call on teams but have been known to handle individual customer complaints.

Section 6 Lesson 4 Exercise 2: Data Manipulation Language

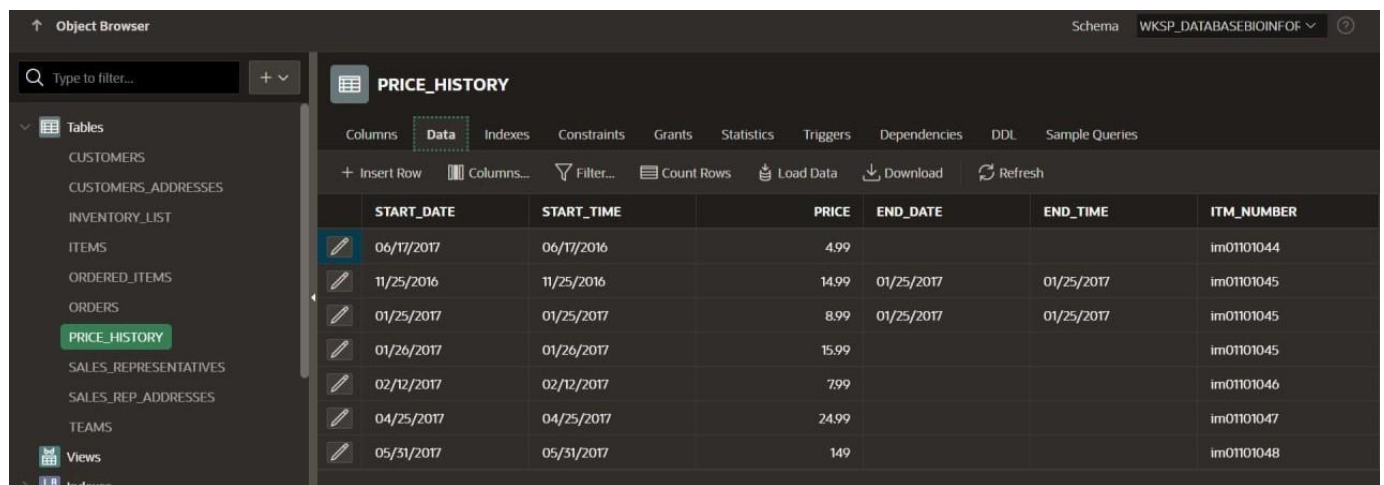
Use DML operations to manage database tables (S6L4 Objective 2)

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:

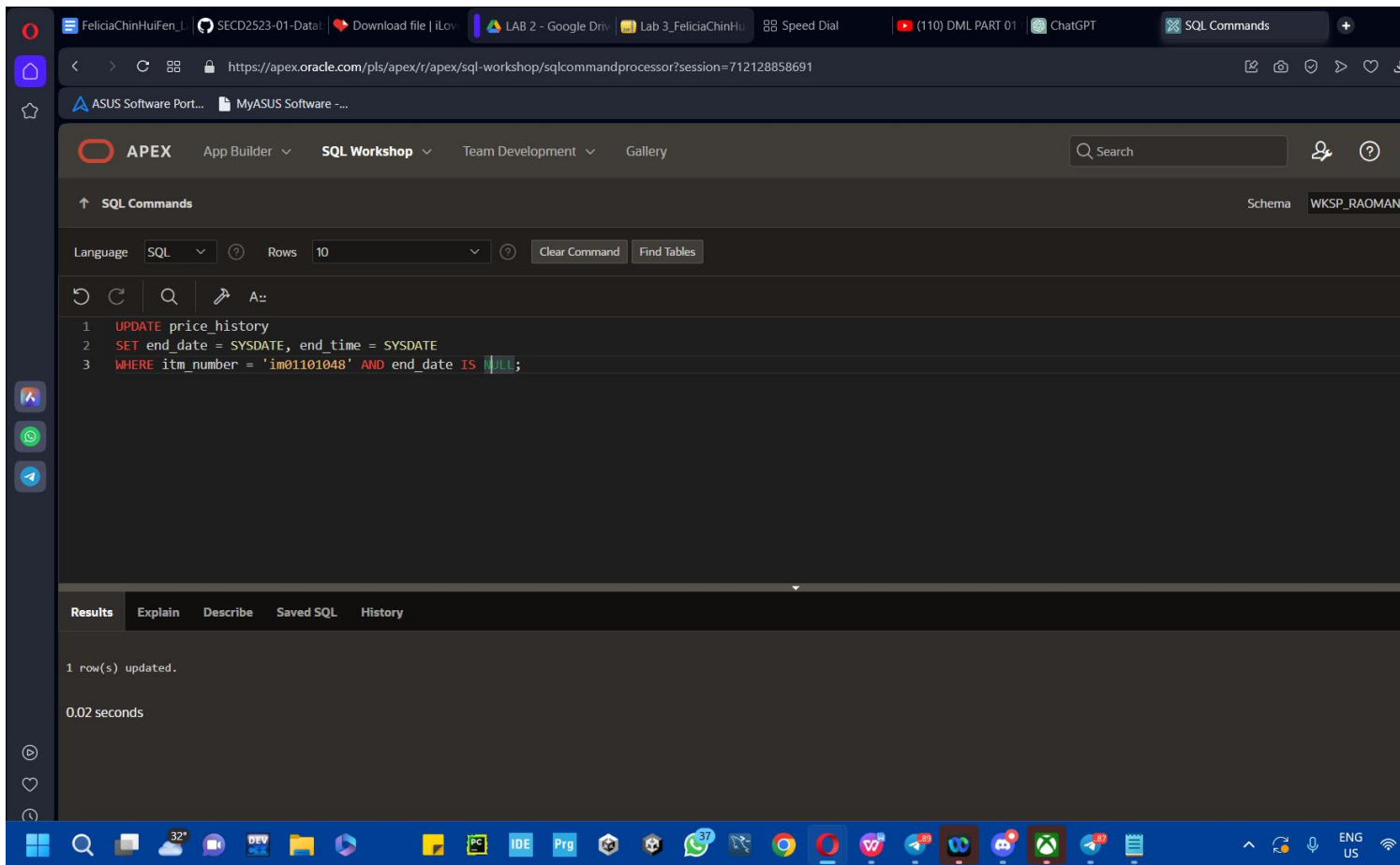
```
SELECT start_date, TO_CHAR (start_time, 'HH24:MI:SS'), price, end_date, TO_CHAR  
(end_time, 'HH24:MI:SS')  
FROM price_history;
```



The screenshot shows the Oracle SQL Developer interface. On the left is the Object Browser with a search bar and a list of database objects. The 'PRICE_HISTORY' table is selected and highlighted in green. The main pane displays the 'PRICE_HISTORY' table with tabs for Columns, Data, Indexes, Constraints, Grants, Statistics, Triggers, Dependencies, DDL, and Sample Queries. The 'Data' tab is active, showing a table with 7 columns: START_DATE, START_TIME, PRICE, END_DATE, END_TIME, and ITM_NUMBER. There are 7 rows of data. The first row has a pencil icon in the START_DATE column. The schema is WKSP_DATABASEBIOINFO.

	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			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.



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

Browser tabs: FeliciaChinHuiFen_L, SECD2523-01-Data, Download file | iL... LAB 2 - Google Driv Lab 3_FeliciaChinHui Speed Dial (110) DML PART 01 ChatGPT SQL Commands

Address bar: <https://apex.oracle.com/pls/apex/f/apex/sql-workshop/sqlcommandprocessor?session=712128858691>

ASUS Software Port... MyASUS Software ...

APEX App Builder SQL Workshop Team Development Gallery

Search

SR sudashan rao rao#man0702

SQL Commands Schema WKSP_RAOMAN0702

Language SQL Rows 10 Clear Command Find Tables Save Run

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

Results Explain Describe Saved SQL 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	11/07/2023	07:54

7 rows returned in 0.00 seconds Download

Windows taskbar: 32° 3:59 PM 7/11/2023

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 displays the Oracle APEX SQL Workshop interface. The top navigation bar includes the APEX logo, tabs for App Builder, SQL Workshop (selected), Team Development, and Gallery. A search bar and user profile (SR sudashan rao) are on the right. Below the navigation bar, the 'SQL Commands' section is active, showing a schema dropdown set to 'WKSP_RAOMAN0702'. The SQL editor contains the following code:

```
1 INSERT INTO price_history (itm_number, start_date, start_time, price)
2 VALUES ('im01101048', CURRENT_DATE, CURRENT_DATE, 99.99);
3
```

Below the editor, the 'Results' tab is selected, displaying the output: '1 row(s) inserted.' and '0.01 seconds'. The Windows taskbar at the bottom shows various application icons and the system clock indicating 4:00 PM on 7/11/2023.

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'. The user is logged in as 'sudashan rao' with the email 'rao#man0702'. The schema is set to 'WKSP_RAOMAN0702'. The SQL command area shows the following query:

```

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

```

The results tab is active, displaying 8 rows of data. The table has the following columns: START_DATE, TO_CHAR(START_TIME,'HH24:MI:SS'), PRICE, END_DATE, and TO_CHAR(END_TIME,'HH24:MI').

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	07:54
11/07/2023	08:00:18	99.99	-	-

8 rows returned in 0.00 seconds. A 'Download' link is available.

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 a SQL statement that will remove this address from the system.

The screenshot displays the Oracle APEX SQL Workshop interface. The browser address bar shows the URL: <https://apex.oracle.com/pls/apex/f/apex/sql-workshop/sqlcommandprocessor?session=712128858691>. The page title is "SQL Commands". The user is logged in as "sudashan rao" (SR) with the email "rao#man0702". The schema is set to "WKSP_RAOMAN0702". The language is "SQL" and the number of rows to display is "10". The SQL command entered is:

```
1 DELETE FROM customers_addresses
2 WHERE address_line_1 = '83 Barrhill Drive' AND ctr_number = 'c00001';
```

The command has been executed successfully, resulting in "1 row(s) deleted." and a duration of "0.03 seconds". The interface includes tabs for "Results", "Explain", "Describe", "Saved SQL", and "History". The Windows taskbar at the bottom shows the time as 4:20 PM on 7/11/2023.

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

Object Browser

Schema: WKSP_RAOMAN0702

Object Browser

Tables

- CUSTOMERS
 - CUSTOMERS_ADDRESSES**
 - INVENTORY_LIST
 - ITEMS
 - ORDERED_ITEMS
 - ORDERS
 - PRICE_HISTORY
 - SALES_REPRESENTATIVES
 - SALES_REP_ADDRESSES
- TEAMS
- Views
- Indexes
- Sequences
- Types
- Packages
- Procedures
- Functions
- Triggers

CUSTOMERS_ADDRESSES

Columns | **Data** | Indexes | Constraints | Grants | Statistics | Triggers | Dependencies | DDL | Sample 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	63 Acacia Drive	Skins	Liverpool	LP83JHR	c00001

1 row selected

Browser tabs: FeliciaChinHuiFen_Lab2, SECD2523-01-Database, Download file | iLovePL, LAB 2 - Google Drive, Lab 3_FeliciaChinHuiFen, Speed Dial, (110) DML PART 01 DE, SQL Commands

Address bar: <https://apex.oracle.com/pls/apex/r/apex/sql-workshop/sqlcommandprocessor?session=712128858691>

Navigation: ASUS Software Port..., MyASUS Software ...

APEX App Builder | SQL Workshop | Team Development | Gallery

Search: Search

User: SR sudashan rao rao#man0702

SQL Commands Schema: WKSP_RAOMAN0702

Language: SQL Rows: 10 Clear Command Find Tables Save Run

SQL Command: 1 SELECT * FROM customers_addresses WHERE address_line_1 = '83 Barrhill Drive' AND ctr_number = 'c00001';

Results Explain Describe Saved SQL History

no data found

Windows Taskbar: 32°, 36, 39, PC, IDE, Prg, WhatsApp, 36, Chrome, VS Code, Word, Teams, OneDrive, ENG US, 4:24 PM 7/11/2023