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SECD2523 - DATABASE

SECTION: 08

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LAB 3- DML2

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A22EC0149

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 6 Exercise 1: Retrieving Data Using SELECT

Write and Execute SELECT statements (S6L6 Objective 2)

In this exercise you will retrieve data that is stored in the database system by using a SELECT statement.

Part 1: Retrieving all columns from a table.

Using the SELECT * statement show all data stored in the following tables:

1. customers.

2. teams.

3. items

The screenshot shows the Oracle APEX SQL Workshop interface. At the top, there are tabs for App Builder, SQL Workshop (selected), Team Development, and Gallery. On the right, there's a search bar, user information for 'CHONG SIEW ZHEN', and a schema dropdown set to 'WKSP_CHONGSIEWZHEN'. Below the tabs, there's a toolbar with Language (SQL selected), Rows (set to 10), Clear Command, Find Tables, Save, and Run buttons.

In the main area, the SQL command 'SELECT * FROM items;' is entered in the SQL editor. The results are displayed in a table:

ITEM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	SIZE	ILT_ID
im01101046	socks	team socks with emblem	clothing	range	l	il010230126
im01101047	game top	team shirt with emblem	clothing	range	m	il010230127
im01101048	premium bat	high quality baseball bat	equipment	-	-	il010230128
im01101044	gloves	catcher mitt	clothing	brown	m	il010230124
im01101045	under shirt	top worn under the game top	clothing	white	s	il010230125

Below the table, it says '5 rows returned in 0.03 seconds' and has a 'Download' link. At the bottom, there are links for email, profile, and language ('en'), and a copyright notice: 'Copyright © 1999, 2023, Oracle and/or its affiliates. Oracle APEX 23.2.1'.

Part 2: Selecting Specific Columns

- Display the customer number, first name, last name, email and phone number of the customers.

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes links for APEX, App Builder, SQL Workshop, Team Development, and Gallery. The user is connected to the schema 'CHONG SIEW ZHEN' (chongsiewzhen). The SQL Commands section contains the following query:

```
1 SELECT ctr_number, first_name, last_name, email, phone_number
2  FROM customers;
```

The Results section displays the output of the query:

CTR_NUMBER	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER
c01986	Maria	Galant	margal87@delphiview.com	01442736589
c00101	John	Doe	unknown@here.com	05216547808
c00001	Robert	Thornberry	bob.thornberry@heatmail.com	01234567898
c00012	Jennifer	Jones	Jjones@freemail.com	01050214598
c00103	Andrew	Murcia	MurciaA@globaltech.com	07715246890
c02001	Brian	Rogers	brianrog@hootech.com	01654564898

6 rows returned in 0.01 seconds [Download](#)

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- Display the name and number of players for each team.

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes links for APEX, App Builder, SQL Workshop, Team Development, and Gallery. The user is connected to the schema 'CHONG SIEW ZHEN' (chongsiewzhen). The SQL Commands section contains the following query:

```
1 SELECT name, number_of_players
2  FROM teams;
```

The Results section displays the output of the query:

NAME	NUMBER_OF_PLAYERS
Celtics	42
Rovers	8
Jets	10
Rockets	25

4 rows returned in 0.00 seconds [Download](#)

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- Display the name, description and category for every item in the table.

APEX App Builder SQL Workshop Team Development Gallery

Search Schema WKSP_CHONGSIEWZHEN

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

Result Explain Describe Saved SQL History

NAME	DESCRIPTION	CATEGORY
socks	team socks with emblem	clothing
game top	team shirt with emblem	clothing
premium bat	high quality baseball bat	equipment
gloves	catcher mitt	clothing
under shirt	top worn under the game top	clothing

5 rows returned in 0.00 seconds Download

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Section 6 Lesson 6 Exercise 2: Retrieving Data Using SELECT

Write and Execute SELECT statements (S6L6 Objective 2)

In this exercise you will retrieve data that is stored in the database system by using a SELECT statement.

Part 1: Using Arithmetic Operators

1. Every customer has been told they can pay off their current balance over a 12 month period. Display the customer's first name, last name, current balance and monthly payment.

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes links for APEX, App Builder, SQL Workshop (selected), Team Development, and Gallery. On the right, it shows the user 'CHONG SIEW ZHEN' and the schema 'WKSP_CHONGSIEWZHEN'. The main area is titled 'SQL Commands' with a sub-section 'Language: SQL'. The code editor contains the following SQL query:

```
1  SELECT first_name, last_name, current_balance, ROUND(current_balance/12,2) as monthly_payment
2  |  FROM customers;
```

Below the code editor is a results grid with the following data:

FIRST_NAME	LAST_NAME	CURRENT_BALANCE	MONTHLY_PAYMENT
Maria	Galant	125.65	10.47
John	Doe	987.5	82.29
Robert	Thornberry	150	12.5
Jennifer	Jones	0	0
Andrew	Murcia	85	7.08
Brian	Rogers	50	4.17

At the bottom of the results grid, it says '6 rows returned in 0.01 seconds' and has a 'Download' link. The footer of the page includes the user's email 'chong.zhen@graduate.utm.my', the schema 'chongsiewzhen', a language indicator 'en', copyright information 'Copyright © 1999, 2023, Oracle and/or its affiliates.', and the version 'Oracle APEX 23.2.1'.

2. Obl is considering giving a gift card to all its customers of 5.00 that can be used to reduce their current balance. Write a query that will show the customers first name, last name, customer number, current balance and the value of their balance minus the gift value.

APEX App Builder SQL Workshop Team Development Gallery

Search Schema WKSP_CHONGSIEWZHEN

SQL Commands

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 SELECT first_name, last_name, ctr_number, current_balance, current_balance-5.00 as balance_after_gift
2 | FROM customers;
```

Results Explain Describe Saved SQL History

FIRST_NAME	LAST_NAME	CTR_NUMBER	CURRENT_BALANCE	BALANCE_AFTER_GIFT
Maria	Galant	c01986	125.65	120.65
John	Doe	c00101	987.5	982.5
Robert	Thornberry	c00001	150	145
Jennifer	Jones	c00012	0	-5
Andrew	Murcia	c00103	85	80
Brian	Rogers	c02001	50	45

6 rows returned in 0.01 seconds Download

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3. What would be the problem with implementing this scheme?

Suppose the current balance cannot be a negative value. But, the value for Jennifer is -5 after minusing the gift.

Part 2 : Using Column Aliases

1. You previously wrote a query that display the customer's first name, last name, current balance and monthly payment. Rewrite the query to use First Name, Last Name, Balance and Monthly Repayments as the column aliases. The aliases are to be shown exactly as described (case sensitive).

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes links for APEX, App Builder, SQL Workshop, Team Development, and Gallery. The SQL Workshop tab is selected. The schema dropdown shows 'WKSP_CHONGSIEWZHEN'. The main area contains a SQL command window with the following code:

```
1 SELECT first_name as "First Name",
2       last_name as "Last Name",
3       current_balance as "Balance",
4       ROUND(current_balance/12, 2) as "Monthly Repayments"
5  FROM customers;
```

Below the code, there are tabs for Results, Explain, Describe, Saved SQL, and History. The Results tab is selected, displaying a table with the following data:

First Name	Last Name	Balance	Monthly Repayments
Maria	Galant	125.65	10.47
John	Doe	987.5	82.29
Robert	Thornberry	150	12.5
Jennifer	Jones	0	0
Andrew	Murcia	85	7.08
Brian	Rogers	50	4.17

At the bottom left, it says '6 rows returned in 0.01 seconds' and 'Download'. At the bottom right, it says 'Oracle APEX 23.2.1'.

Part 3: Using Literal Character Strings

1. Write a query that will display the team information in the following format:

The Rockets team has 25 players and receives a discount of 10 percent.

Use **Team Information** as the column alias.

The screenshot shows the Oracle APEX SQL Workshop interface. The SQL editor contains the following code:

```
1 SELECT
2   || 'The ' || name || ' team has ' || number_of_players || ' players and receives a discount of ' || discount || ' percent.' as "Team Information"
3   FROM teams;
```

The results pane displays the output of the query:

Team Information
The Celtics team has 42 players and receives a discount of 20 percent.
The Rovers team has 8 players and receives a discount of percent.
The Jets team has 10 players and receives a discount of 5 percent.
The Rockets team has 25 players and receives a discount of 10 percent.

Below the results, it says "4 rows returned in 0.00 seconds".

2. Why does the last team not show a discount?

The discount value of Rovers is null, null does not mean 0.

Section 6 Lesson 7 Exercise 1: Restricting Data Using WHERE

Limit rows using WHERE (S6L7 Objective 1)

In this exercise you will refine the data that is returned in your query by adding a WHERE clause to your SELECT statement.

Part 1: Using the WHERE Clause.

1. Using the unique customer number in the where clause display all columns for Maria Galant.

The screenshot shows the Oracle APEX SQL Workshop interface. The SQL command window contains the following code:

```
1 SELECT * FROM customers
2 WHERE ctr_number = 'c01986';
```

The results window displays the following table:

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	-

1 rows returned in 0.00 seconds [Download](#)

2. Display the first name, last name and customer number for all customers who have a current balance of greater than 100. Use an appropriate alias for your column headings.

The screenshot shows the Oracle APEX SQL Workshop interface. The SQL command window contains the following code:

```
1 SELECT
2   first_name AS "First Name",
3   last_name AS "Last Name",
4   ctr_number AS "Customer Number"
5   FROM customers
6  WHERE current_balance > 100;
```

The results window displays the following table:

First Name	Last Name	Customer Number
Maria	Galant	c01986
John	Doe	c00101
Robert	Thornberry	c00001

3 rows returned in 0.01 seconds [Download](#)

3. Display the order id, date and time of all orders that were placed before the 28th of May 2019. Use an appropriate alias for your column headings.

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes links for APEX, App Builder, SQL Workshop, Team Development, and Gallery. The user is logged in as CHONG SIEW ZHEN (chongsiewzhen). The SQL Workshop tab is active, showing a query editor with the following SQL code:

```
1 SELECT
2     id as "Order ID",
3     odr_date as "Ordered Date",
4     odr_time as "Ordered Time"
5   FROM orders
6  WHERE odr_date < TO_DATE('28-MAY-2019', 'DD-MON-YYYY');
```

The results section displays a table with three columns: Order ID, Ordered Date, and Ordered Time. The data is as follows:

Order ID	Ordered Date	Ordered Time
or0101350	05/24/2017	05/24/2017
or0101425	05/28/2017	05/28/2017
or0101250	04/17/2017	04/17/2017
or0101681	06/02/2017	06/02/2017
or0101750	06/18/2017	06/18/2017

Below the table, it says "5 rows returned in 0.01 seconds" and there is a "Download" link. The bottom footer includes links for chong.zhen@graduate.utm.my, chongsiewzhen, and en, along with copyright information: Copyright © 1999, 2023, Oracle and/or its affiliates. and Oracle APEX 23.2.1.

Part 2: Range Conditions: BETWEEN Operator

1. Display the inventory id, cost and number of units using appropriate aliases for all items that have a trade cost of between 3.00 and 15.00.

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes links for App Builder, SQL Workshop, Team Development, and Gallery. The user is connected to schema 'CHONG SIEW ZHEN' (chongsiewzhen). The SQL editor contains the following code:

```
1 SELECT
2     id as "Inventory ID",
3     cost as "Cost",
4     units as "Number of Units"
5     FROM inventory_list
6     WHERE cost BETWEEN 3.00 AND 15.00;
7
```

The results section displays the following data:

Inventory ID	Cost	Number of Units
i010230126	5.24	87
i010230125	7.99	250

Below the results, it says '2 rows returned in 0.03 seconds' and has a 'Download' link. The bottom of the page includes footer links for chong.zhen@graduate.utm.my, chongsiewzhen, and en, along with copyright information: Copyright © 1999, 2023, Oracle and/or its affiliates. and Oracle APEX 25.2.1.

Part 3: Membership Conditions: IN Operator

1. Display the inventory id, cost and number of units using appropriate aliases for all items that have 50, 100, 150 or 200 units in stock.

Part 4: Membership Conditions: NOT IN Operator

1. Display the inventory id, cost and number of units using appropriate aliases for all items that do not have 50,100, 150 or 200 units in stock.

Part 5: Pattern Matching: LIKE Operator

1. Display item number and name of all items that have a name that begins with g. Use an appropriate alias for your column headings.

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes links for APEX, App Builder, SQL Workshop, Team Development, and Gallery. The right side shows the user's profile: CHONG SIEW ZHEN (chongsiewzhen). The main area is titled "SQL Commands". The code editor contains the following SQL query:

```
1 SELECT
2     item_number as "Item Number",
3     name as "Item name"
4     FROM items
5     WHERE name like 'g%';
```

The results section shows the output of the query:

Item Number	Item name
im01101047	game top
im01101044	gloves

Below the results, it says "2 rows returned in 0.00 seconds" and there is a "Download" link. At the bottom, there are footer links for chong.zhen@graduate.utm.my, chongsiewzhen, and en, along with copyright information: Copyright © 1999, 2023, Oracle and/or its affiliates. and Oracle APEX 23.2.1.

Part 6 : Pattern Matching: Combining Wildcard Characters with the LIKE Operator

1. Display item number and name of all items that have a name that contain a lowercase o. Use an appropriate alias for your column headings.

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes links for APEX, App Builder, SQL Workshop, Team Development, and Gallery. On the right, it shows the user's name 'CHONG SIEW ZHEN' and schema 'WKSP_CHONGSIEWZHEN'. The main area is titled 'SQL Commands' and contains the following SQL code:

```
1 SELECT
2     itm_number AS "Item Number",
3     name AS "Item name"
4     FROM items
5    WHERE name like '%o%';
6
```

Below the code, there are buttons for Save and Run. The results section shows a table with two rows:

Item Number	Item name
im01101046	socks
im01101047	game top
im01101044	gloves

The results table has three columns: Item Number, Item name, and a third column which is partially visible. The footer of the page includes copyright information and a link to Oracle APEX 23.2.1.

Section 6 Lesson 7 Exercise 2: Restricting Data Using WHERE

Limit rows using WHERE (S6L7 Objective 1)

In this exercise you will refine the data that is returned in your query by adding a WHERE clause to your SELECT statement.

Part 1: Using the NULL Conditions

1. Write a query that will display information for teams that don't receive a discount in the following format:

The Rovers team has 25 players and does not receive a discount.

Use Team Information as the column alias.

A screenshot of the Oracle APEX SQL Workshop interface. The top navigation bar shows 'APEX' and 'SQL Workshop'. The schema is set to 'WKSP_CHONGSIEWZHEN'. The SQL command window contains the following code:

```
1 SELECT
2   'The ' || name || ' team has ' || number_of_players || ' players and does not receive a discount.' as "Team Information"
3   FROM teams
4   WHERE discount IS NULL;
```

The results window shows the output:

Team Information

The Rovers team has 8 players and does not receive a discount.

1 rows returned in 0.01 seconds [Download](#)

At the bottom, it shows the user's email 'chong.zhen@graduate.utm.my', the schema 'chongsiewzhen', and the copyright notice 'Copyright © 1999, 2023, Oracle and/or its affiliates. Oracle APEX 23.2.1'.

2. Write a query that will display information for only teams that receive a discount in the following format:

The Rockets team has 25 players and receives a discount of 10 percent.

Use Team Information as the column alias.

A screenshot of the Oracle APEX SQL Workshop interface. The top navigation bar shows 'APEX' and 'SQL Workshop'. The schema is set to 'WKSP_CHONGSIEWZHEN'. The SQL command window contains the following code:

```
1 SELECT
2   'The ' || name || ' team has ' || number_of_players || ' players and receive a discount of ' || discount || ' percent.' as "Team Information"
3   FROM teams
4   WHERE discount IS NOT NULL;
```

The results window shows the output:

Team Information

The Celtics team has 42 players and receive a discount of 20 percent.

The Jets team has 10 players and receive a discount of 5 percent.

The Rockets team has 25 players and receive a discount of 10 percent.

3 rows returned in 0.01 seconds [Download](#)

At the bottom, it shows the user's email 'chong.zhen@graduate.utm.my', the schema 'chongsiewzhen', and the copyright notice 'Copyright © 1999, 2023, Oracle and/or its affiliates. Oracle APEX 23.2.1'.

Part 2: Logical Operators: AND

1. Write a query that will display the customer number, address line 1 and postal code for customers that live in the starford area of Liverpool. Use Customer Number, Street Address and Postal Code as the column aliases.

The screenshot shows the Oracle APEX SQL Workshop interface. The SQL command window contains the following query:

```
1 SELECT
2     ctr_number AS "Customer Number",
3     address_line_1 AS "Street Address",
4     zip_code AS "Postal Code"
5 FROM customers_addresses
6 WHERE city = 'Liverpool' AND address_line_2 = 'Starford';
```

The results table shows one row:

Customer Number	Street Address	Postal Code
c00001	17 Gartsquare Road	LP89JHK

1 rows returned in 0.03 seconds

Part 3: Logical Operators: OR

1. Write a query that will display the customer number, address line 1 and postal code for customers that live in either starford or Liverpool in general. Use Customer Number, Street Address and Postal Code as the column aliases.

The screenshot shows the Oracle APEX SQL Workshop interface. The SQL command window contains the following query:

```
1 SELECT
2     ctr_number AS "Customer Number",
3     address_line_1 AS "Street Address",
4     zip_code AS "Postal Code"
5 FROM customers_addresses
6 WHERE city = 'Liverpool' OR address_line_2 = 'Starford';
```

The results table shows two rows:

Customer Number	Street Address	Postal Code
c00001	17 Gartsquare Road	LP89JHK
c00001	63 Acacia Drive	LP83JHR

2 rows returned in 0.01 seconds

Part 4: Logical Operators: NOT Equal To

1. Write a query that will display the customer number, address line 1 and postal code for customers that do not live in Liverpool. Use Customer Number, Street Address and Postal Code as the column aliases.

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes links for App Builder, SQL Workshop, Team Development, and Gallery. The user is logged in as CHONG SIEW ZHEN (chonglewzhen). The SQL Commands tab is active, displaying the following query:

```
1 SELECT
2     ctr_number as "Customer Number",
3     address_line_1 as "Street Address",
4     zip_code as "Postal Code"
5     FROM customers_addresses
6     WHERE city NOT IN('Liverpool');
```

The Results tab is selected, showing the output of the query:

Customer Number	Street Address	Postal Code
c00101	54 Ropehill Crescent	ST45AGV
c01986	36 Watercress Lane	JP23YTH

Below the results, it says "2 rows returned in 0.00 seconds" and provides a "Download" link. The bottom of the page includes copyright information and links for chong.zhen@graduate.utm.my, chongsiewzhen, and en.

Section 6 Lesson 8 Exercise 1: Sorting Data Using ORDER BY

Use the ORDER BY Clause to Sort SQL Results (S6L8 Objective 1)

In this exercise you will sort the order of the data that is returned in your query by adding an ORDER BY clause to the end of your SELECT statement.

1. Display the team name and number of players alphabetically in order of team name. Use an appropriate alias for your column headings.

The screenshot shows the Oracle APEX SQL Workshop interface. The query in the editor is:

```
1 SELECT
2     name as "Team Name",
3     number_of_players as "Number of Players"
4     FROM teams
5     ORDER BY name;
```

The results table shows the following data:

Team Name	Number of Players
Celtics	42
Jets	10
Rockets	25
Rovers	8

4 rows returned in 0.01 seconds

2. Display the team name and number of players in descending order of number of players. Use an appropriate alias for your column headings.

The screenshot shows the Oracle APEX SQL Workshop interface. The query in the editor is:

```
1 SELECT
2     name as "Team Name",
3     number_of_players as "Number of Players"
4     FROM teams
5     ORDER BY number_of_players DESC;
```

The results table shows the following data:

Team Name	Number of Players
Celtics	42
Rockets	25
Jets	10
Rovers	8

4 rows returned in 0.00 seconds

3. Display the team name and number of players alphabetically in order of team name. Use Team Name for the name alias and Players for the number of players. Sort the output in descending order of name using the alias in the ORDER BY clause.

The screenshot shows the Oracle APEX SQL Workshop interface. At the top, there are navigation links for APEX, App Builder, SQL Workshop (selected), Team Development, and Gallery. On the right, there is a search bar, a user icon for 'CHONG SIEW ZHEN', and a schema dropdown set to 'WKSP_CHONGSIEWZHEN'. Below the header, the SQL Commands section contains the following code:

```
1 SELECT
2   name AS "Team Name",
3   number_of_players AS "Players"
4   FROM teams
5   ORDER BY "Team Name" DESC
```

The Results tab is selected, displaying the following table:

Team Name	Players
Rovers	8
Rockets	25
Jets	10
Celtics	42

Below the table, it says '4 rows returned in 0.01 seconds' and has a 'Download' link. At the bottom of the page, there are footer links for 'chong.zhen@graduate.utm.my', 'chongsiewzhen', and 'en', along with copyright information 'Copyright © 1999, 2025, Oracle and/or its affiliates.' and 'Oracle APEX 23.2.1'.

Section 6 Lesson 8 Exercise 2: Sorting Data Using ORDER BY

Part 1 : TOP-N-ANALYSIS (S6L8 Objective 3)

1. The customers are numbered sequentially with each new customer being assigned a higher customer number. Use TOP-N-ANALYSIS to only show the First and last name of the first three customers. Show the customers first and last name in the same column using Customer Name as the column alias.

The screenshot shows the Oracle APEX SQL Workshop interface. The SQL command entered is:

```
1 SELECT
2   first_name || ' ' || last_name AS "Customer Name"
3   FROM (
4     SELECT first_name, last_name
5       FROM customers
6      ORDER BY ctr_number
7    )
8   WHERE ROWNUM <= 3;
```

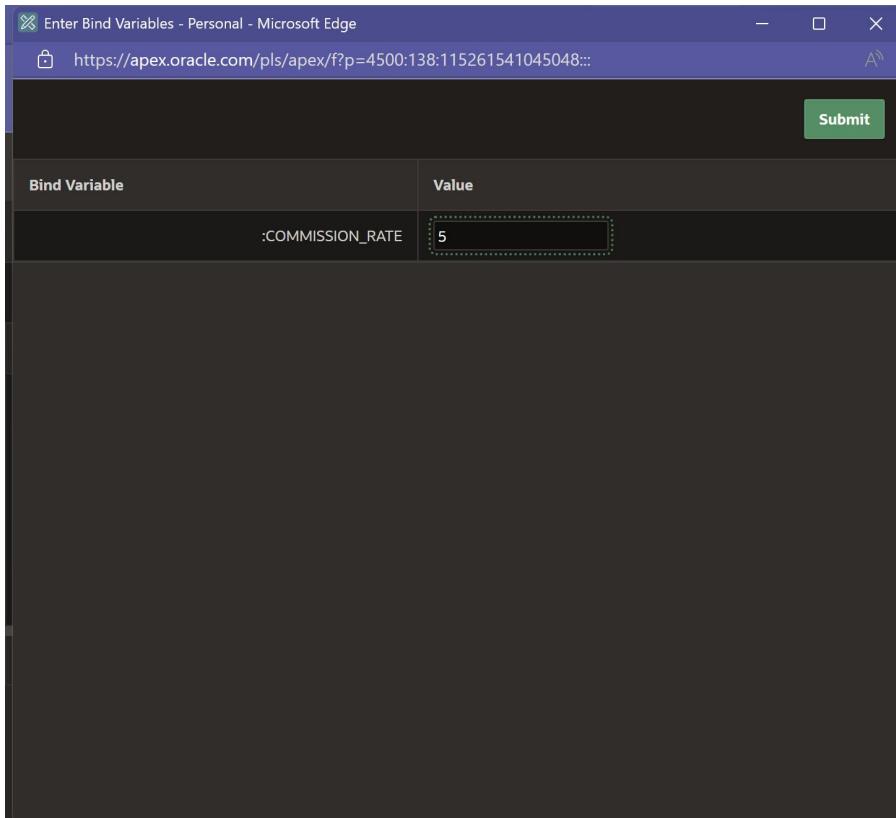
The results section displays the following data:

Customer Name
Robert Thornberry
Jennifer Jones
John Doe

Below the results, it says "3 rows returned in 0.01 seconds".

Part 2 : Using a Substitution Variable (S6L8 Objective 4)

1. Use a substitution variable that will allow you to enter the commission rate for the sales representatives. The first and last names should be displayed to screen for any sales representatives that earn that commission rate and the output should be ordered by their last name. Use an appropriate alias for your column headings.



First Name	Last Name	Commission Rate
Barry	Speed	5
Victoria	Wright	5

