



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

FACULTY OF COMPUTING
UTM Johor Bahru

SECD2523 – Database

Lab 3: DML 2

SECTION: 08-SECJH

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DML2 PART 1

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.

SELECT *
FROM customers;

```
1 SELECT *
2 FROM customers;
```

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
c02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	-	-	lc4587
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	-
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	-	-	lc1015
c00101	unknown@here.com	John	Doe	03216547808	9875	sr01	t002	-
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	-	-	lc2341
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	-

2. teams.

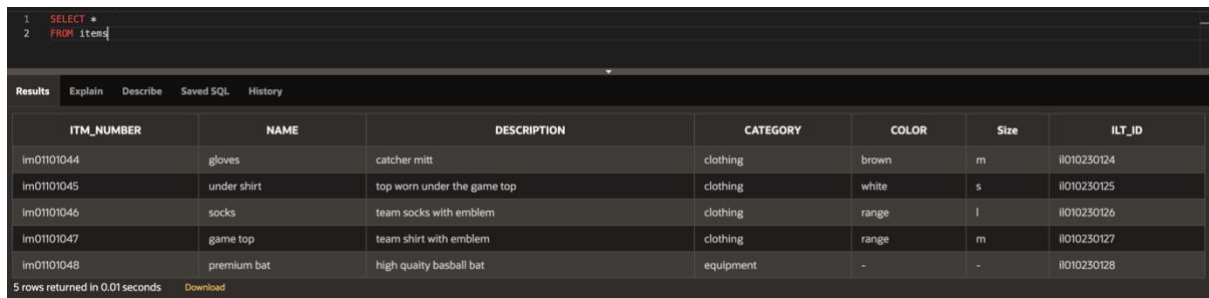
SELECT *
FROM teams;

```
1 SELECT *
2 FROM teams;
```

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

3. items

```
SELECT *  
FROM items;
```



The screenshot shows a SQL query execution interface. At the top, the query is entered in a text area: `1 SELECT *
2 FROM items;`. Below the query area, there are tabs for **Results**, **Explain**, **Describe**, **Saved SQL**, and **History**. The **Results** tab is selected, displaying a table with 7 columns: **ITM_NUMBER**, **NAME**, **DESCRIPTION**, **CATEGORY**, **COLOR**, **Size**, and **ILT_ID**. The table contains 5 rows of data. At the bottom left, it states "5 rows returned in 0.01 seconds" and at the bottom right, there is a "Download" link.

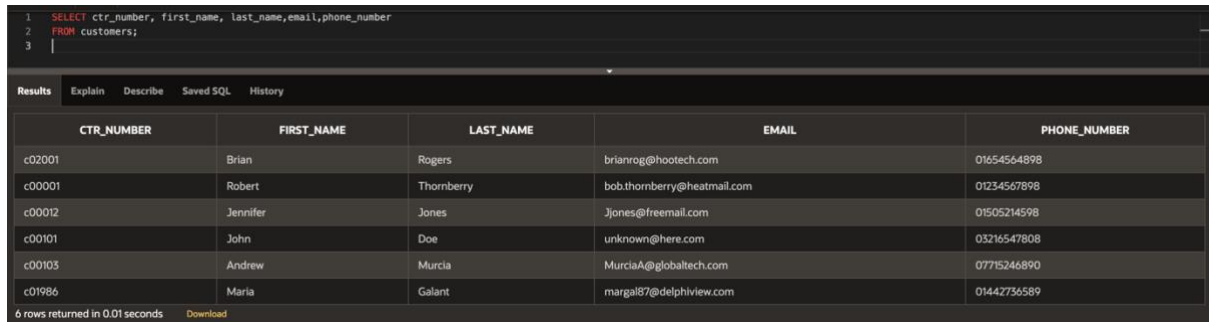
ITM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	Size	ILT_ID
lm01101044	gloves	catcher mitt	clothing	brown	m	il010230124
lm01101045	under shirt	top worn under the game top	clothing	white	s	il010230125
lm01101046	socks	team socks with emblem	clothing	range	l	il010230126
lm01101047	game top	team shirt with emblem	clothing	range	m	il010230127
lm01101048	premium bat	high quality baseball bat	equipment	-	-	il010230128

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

Part 2: Selecting Specific Columns

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

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



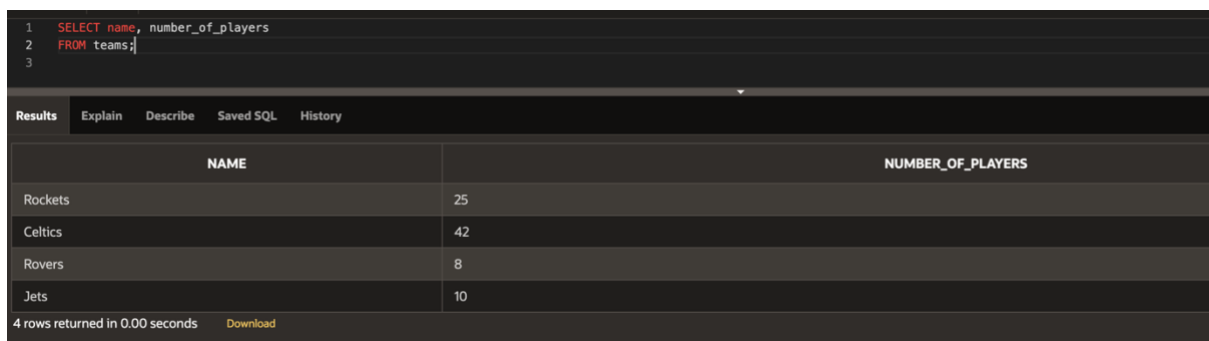
The screenshot shows a SQL query execution interface. The query is: `SELECT ctr_number, first_name, last_name,email,phone_number FROM customers;`. The results are displayed in a table with 5 columns: CTR_NUMBER, FIRST_NAME, LAST_NAME, EMAIL, and PHONE_NUMBER. There are 6 rows of data.

CTR_NUMBER	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER
c02001	Brian	Rogers	brianrog@hooitech.com	01654564898
c00001	Robert	Thornberry	bob.thornberry@heatmail.com	01234567898
c00012	Jennifer	Jones	Jjones@freemail.com	01505214598
c00101	John	Doe	unknown@here.com	03216547808
c00103	Andrew	Murcia	MurciaA@globaltech.com	07715246890
c01986	Maria	Galant	margal87@delphiview.com	01442736589

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

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

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



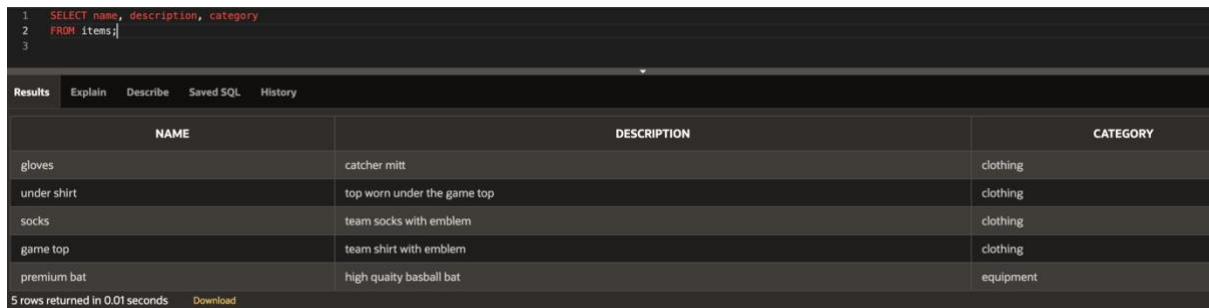
The screenshot shows a SQL query execution interface. The query is: `SELECT name, number_of_players FROM teams;`. The results are displayed in a table with 2 columns: NAME and NUMBER_OF_PLAYERS. There are 4 rows of data.

NAME	NUMBER_OF_PLAYERS
Rockets	25
Celtics	42
Rovers	8
Jets	10

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

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

```
SELECT name, description, category
FROM items;
```



The screenshot shows a SQL query execution interface. The query is: `SELECT name, description, category FROM items;`. The results are displayed in a table with 3 columns: NAME, DESCRIPTION, and CATEGORY. There are 5 rows of data.

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

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

DML2 PART 2

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.

```
SELECT first_name, last_name, current_balance, current_balance/12  
FROM customers;
```

[illegible]

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.

```
SELECT first_name, last_name, ctr_number, current_balance, current_balance-5  
FROM customers;
```

```

1 SELECT first_name, last_name, ctr_number, current_balance, current_balance-5
2 FROM customers;

```

Results
Explain
Describe
Saved SQL
History

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

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

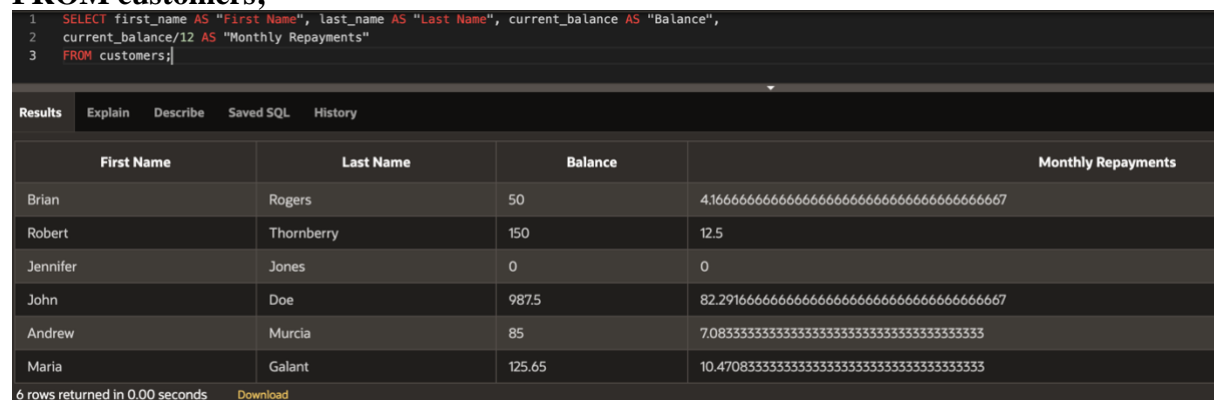
3. What would be the problem with implementing this scheme?

The current balance cannot be zero value

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).

```
SELECT first_name AS "First Name", last_name AS "Last Name", current_balance  
AS "Balance", current_balance/12 AS "Monthly Repayments"  
FROM customers;
```



The screenshot shows a SQL query execution interface. The query is: `SELECT first_name AS "First Name", last_name AS "Last Name", current_balance AS "Balance", current_balance/12 AS "Monthly Repayments" FROM customers;`. The results are displayed in a table with four columns: First Name, Last Name, Balance, and Monthly Repayments. The data is as follows:

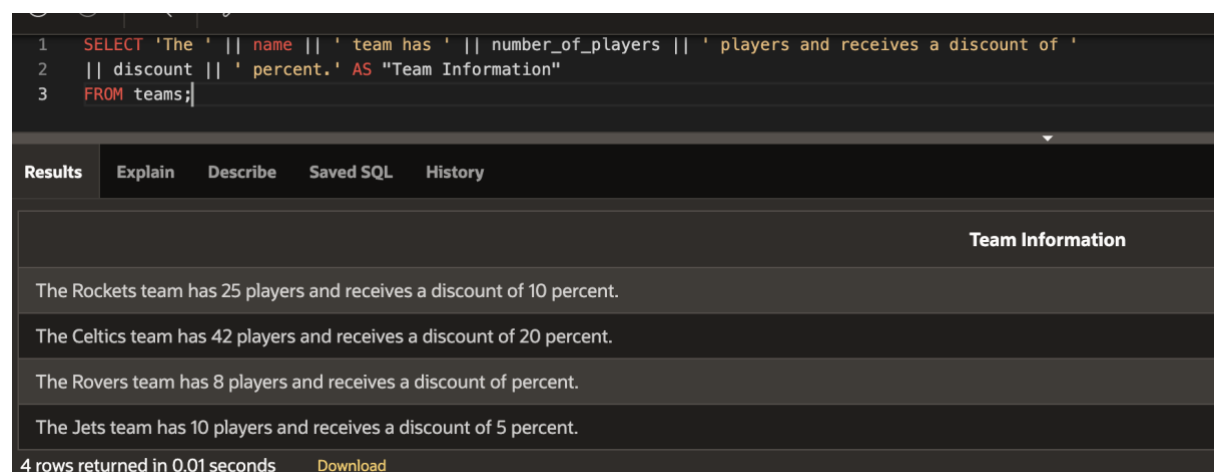
First Name	Last Name	Balance	Monthly Repayments
Brian	Rogers	50	4.166666666666666666666666666667
Robert	Thornberry	150	12.5
Jennifer	Jones	0	0
John	Doe	987.5	82.2916666666666666666666666667
Andrew	Murcia	85	7.083333333333333333333333333333
Maria	Galant	125.65	10.470833333333333333333333333333

6 rows returned in 0.00 seconds Download

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.

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



The screenshot shows a SQL query execution interface. The query is: `SELECT 'The ' || name || ' team has ' || number_of_players || ' players and receives a discount of ' || discount || ' percent.' AS "Team Information" FROM teams;`. The results are displayed in a table with one column: Team Information. The data is as follows:

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

4 rows returned in 0.01 seconds Download

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

It contains the zero value, which means doesn't equal zero.

DML2 PART 3

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.

SELECT*

FROM customers

WHERE ctr_number = 'c01986';

```
1 SELECT*
2 FROM customers
3 WHERE ctr_number = 'c01986';
4
```

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 0.01 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.

SELECT first_name AS "First Name", last_name AS "Last Name", current_balance AS "Balance"

FROM customers

WHERE current_balance > 100;

```
1 SELECT first_name AS "First Name", last_name AS "Last Name", current_balance AS "Balance"
2 FROM customers
3 WHERE current_balance > 100;
4
```

First Name	Last Name	Balance
Robert	Thornberry	150
John	Doe	9875
Maria	Galant	125.65

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.

```
SELECT id AS "Order ID",
odr_date AS "Date",
TO_CHAR(odr_time, 'HH24:MI:SS') AS "Order Time"
FROM orders
WHERE odr_date < TO_DATE('2019-05-28', 'YYYY-MM-DD');
```

<pre>1 SELECT id AS "Order ID", 2 odr_date AS "Date", 3 TO_CHAR(odr_time, 'HH24:MI:SS') AS "Order Time" 4 FROM orders 5 WHERE odr_date < TO_DATE('2019-05-28', 'YYYY-MM-DD');</pre>		
Results	Explain	Describe
Order ID	Date	Order Time
or0101250	04/17/2017	08:32:30
or0101350	05/24/2017	10:30:35
or0101425	05/28/2017	12:30:00
or0101681	06/02/2017	14:55:30
or0101750	06/18/2017	09:05:00
5 rows returned in 0.01 seconds Download		

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.

```
SELECT id AS "Inventory ID",
cost,
units AS "Number of units"
FROM inventory_list
WHERE cost BETWEEN 3.00 AND 15.00;
```

<pre>1 SELECT id AS "Inventory ID", cost, 2 units AS "Number of units" 3 FROM inventory_list 4 WHERE cost BETWEEN 3.00 AND 15.00; 5 </pre>		
Results	Explain	Describe
Inventory ID	COST	Number of units
ii010230125	7.99	250
ii010230126	5.24	87
2 rows returned in 0.01 seconds Download		

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.

```
SELECT id AS "Inventory ID", cost, units AS "Number of units"
FROM inventory_list
WHERE units IN (50,100,150,200)
```

<pre>1 SELECT id AS "Inventory ID", cost, 2 units AS "Number of units" FROM inventory_list 3 WHERE units IN (50,100,150,200) 4</pre>		
Results	Explain	Describe
Inventory ID	COST	Number of units
ii010230124	2.5	100
1 rows returned in 0.01 seconds Download		

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.

```
SELECT id AS "Inventory ID", cost, units AS "Number of units"
FROM inventory_list
WHERE units NOT IN (50,100,150,200)
```

```
1
2 SELECT id AS "Inventory ID", cost, units AS "Number of units" FROM inventory_list
3 WHERE units NOT IN (50,100,150,200)
4
```

Inventory ID	COST	Number of units
ii010230125	799	250
ii010230126	5.24	87
ii010230127	18.95	65
ii010230128	97.46	8

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

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.

```
SELECT itm_number AS "Item Number", name
FROM items
WHERE name LIKE 'g%';
```

```
1 SELECT itm_number AS "Item Number", name FROM items
2 WHERE name LIKE 'g%';
3
```

Item Number	NAME
im01101044	gloves
im01101047	game top

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

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.

```
SELECT itm_number AS "Item Number", name
FROM items
WHERE name LIKE '_o%';
```

```
1 SELECT itm_number AS "Item Number", name FROM items
2 WHERE name LIKE '_o%';
3
```

Item Number	NAME
im01101046	socks

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

DML2 PART 4

Section 6 Lesson 7 Exercise 2: Restricting Data Using WHERE

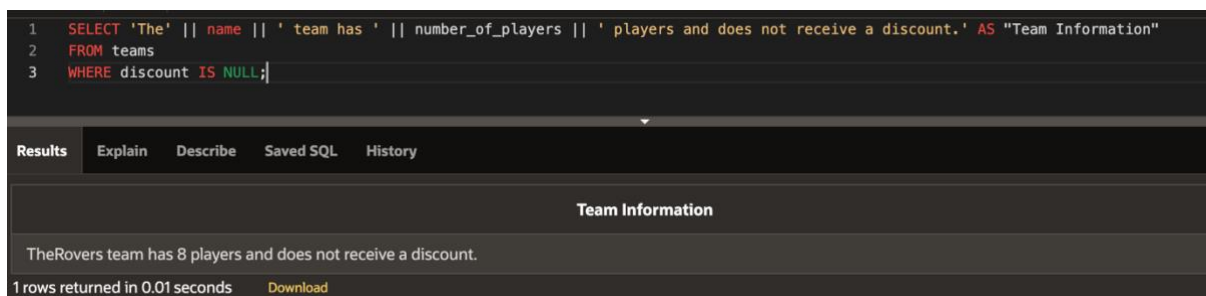
Limit rows using WHERE (S6L7 Objective 1)

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.

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



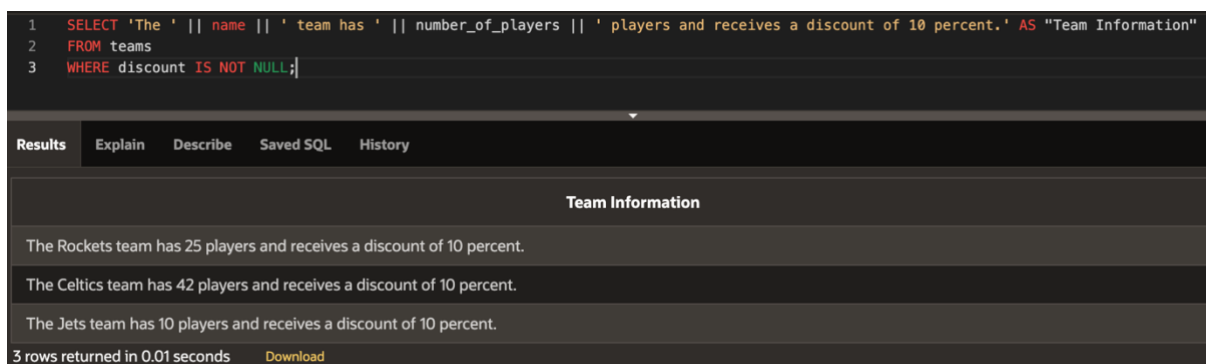
The screenshot shows a SQL query execution interface. The query is: `SELECT 'The' || name || ' team has ' || number_of_players || ' players and does not receive a discount.' AS "Team Information" FROM teams WHERE discount IS NULL;`. The interface includes tabs for Results, Explain, Describe, Saved SQL, and History. The Results tab is active, showing a table with the header "Team Information" and one row: "TheRovers team has 8 players and does not receive a discount." Below the table, it states "1 rows returned in 0.01 seconds" and provides a "Download" link.

Team Information
TheRovers team has 8 players and does not receive a discount.

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

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.

```
SELECT 'The ' || name || ' team has ' || number_of_players || ' players and receives a  
discount of 10 percent.' AS "Team Information"  
FROM teams  
WHERE discount IS NOT NULL;
```



The screenshot shows a SQL query execution interface. The query is: `SELECT 'The ' || name || ' team has ' || number_of_players || ' players and receives a discount of 10 percent.' AS "Team Information" FROM teams WHERE discount IS NOT NULL;`. The interface includes tabs for Results, Explain, Describe, Saved SQL, and History. The Results tab is active, showing a table with the header "Team Information" and three rows: "The Rockets team has 25 players and receives a discount of 10 percent.", "The Celtics team has 42 players and receives a discount of 10 percent.", and "The Jets team has 10 players and receives a discount of 10 percent." Below the table, it states "3 rows returned in 0.01 seconds" and provides a "Download" link.

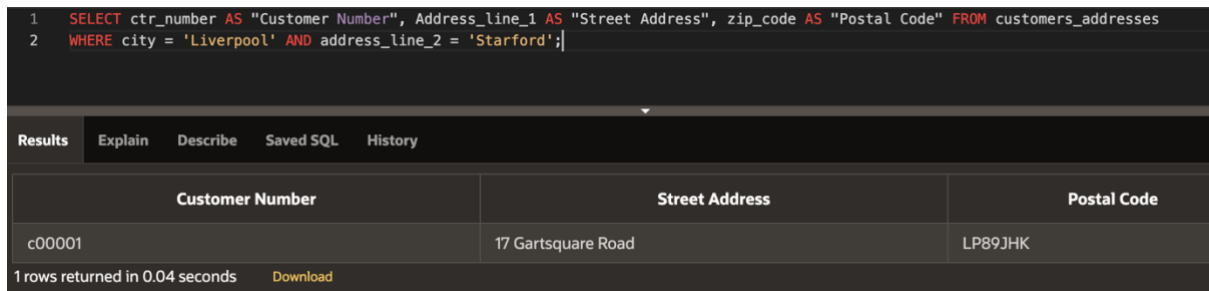
Team Information
The Rockets team has 25 players and receives a discount of 10 percent.
The Celtics team has 42 players and receives a discount of 10 percent.
The Jets team has 10 players and receives a discount of 10 percent.

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

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.

```
SELECT ctr_number AS "Customer Number", Address_line_1 AS "Street Address",  
zip_code AS "Postal Code" FROM customers_addresses  
WHERE city = 'Liverpool' AND address_line_2 = 'Starford';
```



The screenshot shows a SQL query execution interface. The query is: `SELECT ctr_number AS "Customer Number", Address_line_1 AS "Street Address", zip_code AS "Postal Code" FROM customers_addresses WHERE city = 'Liverpool' AND address_line_2 = 'Starford';`. The results are displayed in a table with three columns: Customer Number, Street Address, and Postal Code. One row is returned: c00001, 17 Gartsquare Road, LP89JHK.

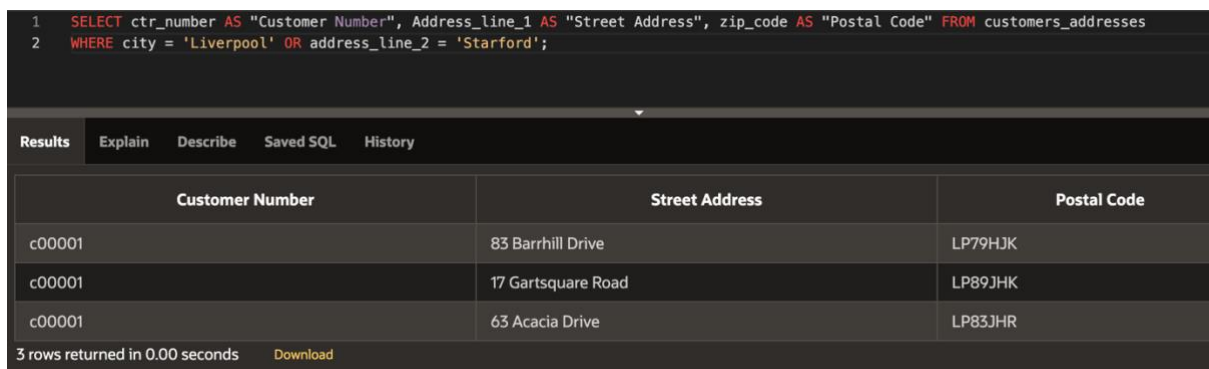
Customer Number	Street Address	Postal Code
c00001	17 Gartsquare Road	LP89JHK

1 rows returned in 0.04 seconds [Download](#)

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.

```
SELECT ctr_number AS "Customer Number", Address_line_1 AS "Street Address",  
zip_code AS "Postal Code" FROM customers_addresses  
WHERE city = 'Liverpool' OR address_line_2 = 'Starford';
```



The screenshot shows a SQL query execution interface. The query is: `SELECT ctr_number AS "Customer Number", Address_line_1 AS "Street Address", zip_code AS "Postal Code" FROM customers_addresses WHERE city = 'Liverpool' OR address_line_2 = 'Starford';`. The results are displayed in a table with three columns: Customer Number, Street Address, and Postal Code. Three rows are returned: c00001, 83 Barrhill Drive, LP79HJK; c00001, 17 Gartsquare Road, LP89JHK; c00001, 63 Acacia Drive, LP83JHR.

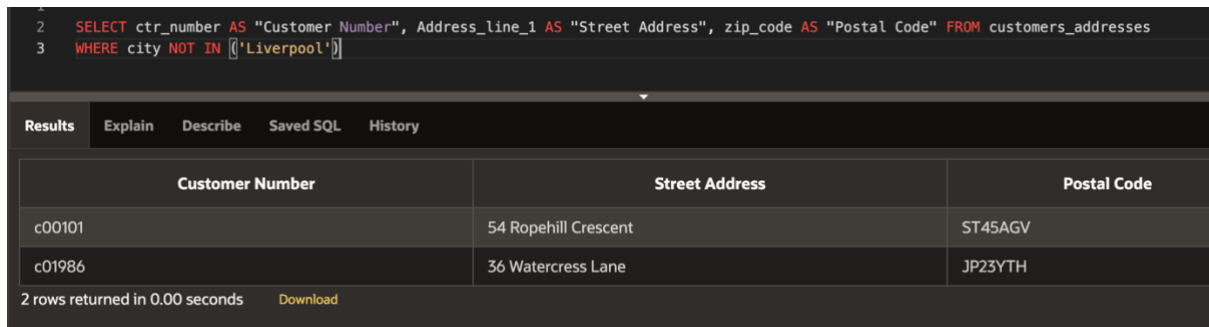
Customer Number	Street Address	Postal Code
c00001	83 Barrhill Drive	LP79HJK
c00001	17 Gartsquare Road	LP89JHK
c00001	63 Acacia Drive	LP83JHR

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

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.

```
SELECT ctr_number AS "Customer Number", Address_line_1 AS "Street Address",  
zip_code AS "Postal Code" FROM customers_addresses  
WHERE city NOT IN ('Liverpool')
```



The screenshot shows a SQL query execution interface. The query is displayed in a text area at the top, followed by a 'Results' tab. Below the tab, a table displays the results of the query. The table has three columns: 'Customer Number', 'Street Address', and 'Postal Code'. There are two rows of data. At the bottom of the results section, it states '2 rows returned in 0.00 seconds' and provides a 'Download' link.

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

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

DML2 PART 5


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.

```
SELECT name AS "Team Name", number_of_players AS "Number of Players"  
FROM teams  
ORDER BY name;
```



The screenshot shows a SQL query execution interface. The query is: `SELECT name AS "Team Name", number_of_players AS "Number of Players" FROM teams ORDER BY name;`. The results are displayed in a table with two columns: "Team Name" and "Number of Players". The data is sorted alphabetically by team name. The table has 4 rows: Celtics (42), Jets (10), Rockets (25), and Rovers (8). Below the table, it says "4 rows returned in 0.01 seconds" and there is a "Download" link.

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

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

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

```
SELECT name AS "Team Name", number_of_players AS "Number of Players"  
FROM teams  
ORDER BY number_of_players DESC;
```



The screenshot shows a SQL query execution interface. The query is: `SELECT name AS "Team Name", number_of_players AS "Number of Players" FROM teams ORDER BY number_of_players DESC;`. The results are displayed in a table with two columns: "Team Name" and "Number of Players". The data is sorted in descending order of the number of players. The table has 4 rows: Celtics (42), Rockets (25), Jets (10), and Rovers (8). Below the table, it says "4 rows returned in 0.01 seconds" and there is a "Download" link.

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

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

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.

```
SELECT name AS "Team Name", number_of_players AS "Number of Players"  
FROM teams  
ORDER BY "Team Name" DESC;
```

1 SELECT name AS "Team Name", number_of_players AS "Number of Players" FROM teams
2 ORDER BY "Team Name" DESC;

Results

ExplainDescribeSaved SQLHistory

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

4 rows returned in 0.01 secondsDownload

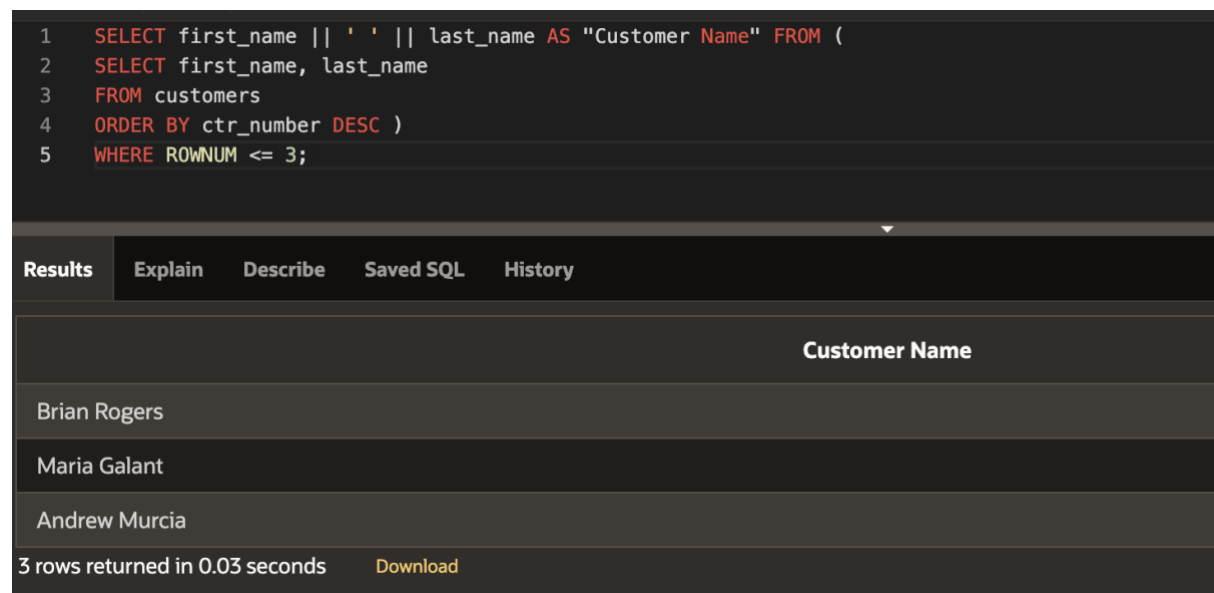
DML2 PART 6

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.

```
SELECT first_name || ' ' || last_name AS "Customer Name" FROM (  
SELECT first_name, last_name  
FROM customers  
ORDER BY ctr_number DESC )  
WHERE ROWNUM <= 3;
```



The screenshot shows a SQL IDE interface. The top panel displays the following SQL query:

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

Below the query editor, there is a tabbed interface with the following tabs: **Results**, **Explain**, **Describe**, **Saved SQL**, and **History**. The **Results** tab is selected, showing the following output:

Customer Name
Brian Rogers
Maria Galant
Andrew Murcia

At the bottom of the results panel, it states: "3 rows returned in 0.03 seconds" followed by a [Download](#) link.

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.

```
SELECT first_name AS "First Name", last_name AS "Last Name", commission_rate  
AS "Commision Rate" FROM sales_representatives  
WHERE commission_rate= :commission_rate  
ORDER BY last_name;
```

Submit

Bind Variable	Value
:COMMISSION_RATE	10

```
1 SELECT first_name AS "First Name", last_name AS "Last Name", commission_rate AS "Commision Rate" FROM sales_representatives
2 WHERE commission_rate= :commission_rate
3 ORDER BY last_name;
```

Results

Explain

Describe

Saved SQL

History

First Name	Last Name	Commision Rate
Charles	Raymond	10

1 rows returned in 0.03 seconds [Download](#)