No.: Date:

Part 1

```
SELECT * FROM customers;

SELECT * FROM customers;

SELECT * FROM items;
```

Part 2 : Selecting Specific Columns

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

SELECT name, number of players
FROM teams;

SELECT name, description, category FROM items;

SELECT first_name, last_name, current_balance, curent_balance /12 AS monthly_payment
FROM customers;

SELECT first_name, last_name, ctr_number, current_balance, current_balance-500) AS
adjusted_balance
FROM customers;
```

There can be a negative value, if there are no constraint

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

The discount value at the third term are NULL

No.: Date:

Part 3

```
SELECT * FROM customers
WHERE ctr_number = '01986';

SELECT first_name AS "First Name", last_name AS "Last Name", ctr_number AS"
Customer Number"
FROM customers
WHERE current_balance >100;

SELECT id AS "Order ID", odr_date AS "Order Date", odr_time AS "Order Time"
FROM orders
WHERE odr_date < TO_DATE('28-May-2019', 'DD-MM-YYYY');
```

Part 2

```
SELECT id AS "Inventory ID", cost AS "Trade Cost", units AS "Number of Units"
FROM inventory_list
WHERE cost Between 3.00 AND 15.00;
```

Part 3

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

Part 4

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

Part 5

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

No.: Date:

Part 6

```
SELECT item_number AS "Item Number", name AS "Item Name"
FROM items
WHERE name LIKE '%60%';
```

PART 4

Part 1

```
SELECT 'The' || NAME || 'team has' || NUMBER_OF_PLAYERS || 'players and does not
receive a discount.' AS "TEAM INFORMATION"
FROM teams
WHERE discount IS NULL
```

2.

```
SELECT 'The' || Name || 'team has' || Number of players || 'players and receive a discount of
' || Discount || 'percent.' AS "TEAM INFORMATION"
FROM teams
WHERE discount IS NOT NULL;
```

No.: Date:

Part 2 : Logical Operator AND

```
SELECT ctr_number AS "CUSTOMER NUMBER", address_LINE_1 AS "STREET
ADDRESS", ZIP_CODE AS "POSTAL CODE"
FROM CUSTOMERS_ADDRESS
WHERE CITY = 'Liverpool' AND ADDRESS_LINE_2 = 'Stanford';
```

Part 3

```
SELECT ctr_number AS "CUSTOMER NUMBER", address_line_1 AS "STREET
ADDRESS", ZIP_CODE AS "POSTAL CODE"
FROM Customer_Address
WHERE CITY = 'Liverpool' OR ADDRESS_LINE_2 = 'Stanford';
```

Part

```
SELECT ctr_number AS "Customer Number", address_Line_1 AS "STREET ADDRESS
", ZIP_CODE AS "POSTAL CODE"
FROM customer_address
WHERE CITY NOT IN ('Liverpool')
```

No.: Date:

PART 5

Part 1

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

Part 2

```
SELECT name AS "Team Name", number_of_players AS "Number of Players"
FROM team
ORDER ORDER by number_of_player DESC;
```

PART 6

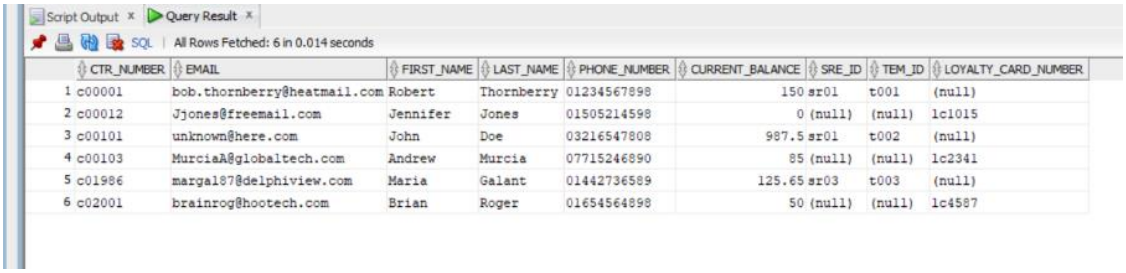
```
SELECT ROWNUM AS "ORDER OF MEMBERSHIP", FIRST_NAME||' '||LAST_
NAME AS "CUSTOMERS NAME"
FROM (SELECT FIRST_NAME, LAST_NAME
FROM CUSTOMERS
ORDER BY dr_number
WHERE ROWNUM <=3
```

Part 2

```
SELECT FIRST_NAME || ' ' || LAST_NAME AS "SALE REPRESENTATIVES"
FROM SALES_REPRESENTATIVES
WHERE COMMISSION_RATE =: COMMISSION_RATE
ORDER BY LAST_NAME
```

PART 1

SELECT * FROM customers;

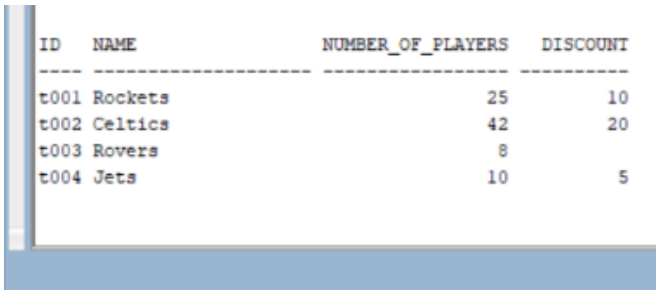


Script Output | Query Result

All Rows Fetched: 6 in 0.014 seconds

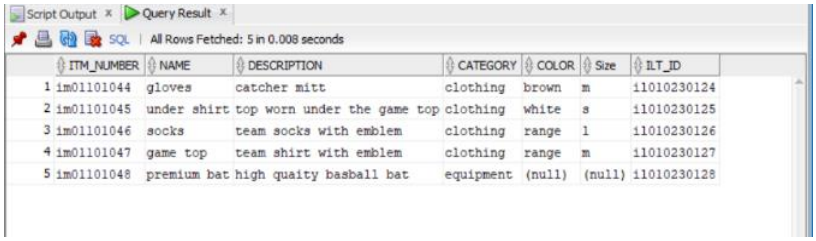
	CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
1	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)
2	c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	lc1015
3	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)
4	c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	lc2341
5	c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)
6	c02001	brainrog@hootech.com	Brian	Roger	01654564898	50	(null)	(null)	lc4587

SELECT * FROM teams;



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

SELECT * FROM items;



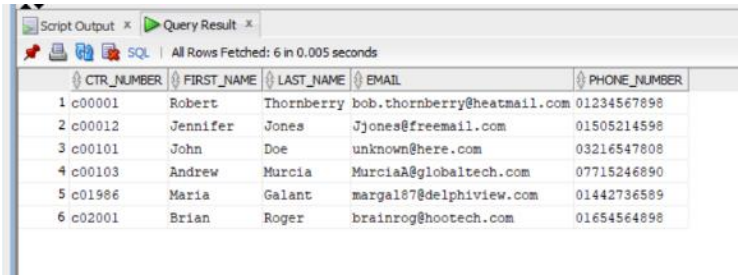
Script Output | Query Result

All Rows Fetched: 5 in 0.008 seconds

	ITM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	Size	ILT_ID
1	im01101044	gloves	catcher mitt	clothing	brown	m	i1010230124
2	im01101045	under shirt	top worn under the game top	clothing	white	s	i1010230125
3	im01101046	socks	team socks with emblem	clothing	range	l	i1010230126
4	im01101047	game top	team shirt with emblem	clothing	range	m	i1010230127
5	im01101048	premium bat	high quaity basball bat	equipment	(null)	(null)	i1010230128

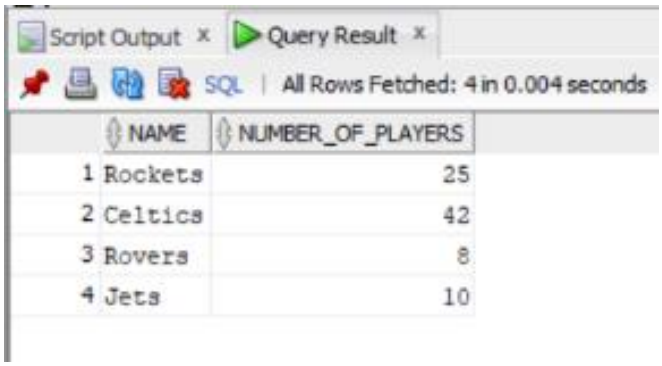
Part 2:Selecting Specific Columns

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


Script Output | Query Result | All Rows Fetched: 6 in 0.005 seconds

	CTR_NUMBER	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER
1	c00001	Robert	Thornberry	bob.thornberry@heatmail.com	01234567898
2	c00012	Jennifer	Jones	Jjones@freemail.com	01505214598
3	c00101	John	Doe	unknown@here.com	03216547808
4	c00103	Andrew	Murcia	MurciaA@globaltech.com	07715246890
5	c01986	Maria	Galant	margal87@delphiview.com	01442736589
6	c02001	Brian	Roger	brainrog@hootech.com	01654564898

SELECT name, number_of_players FROM teams;


Script Output | Query Result | All Rows Fetched: 4 in 0.004 seconds

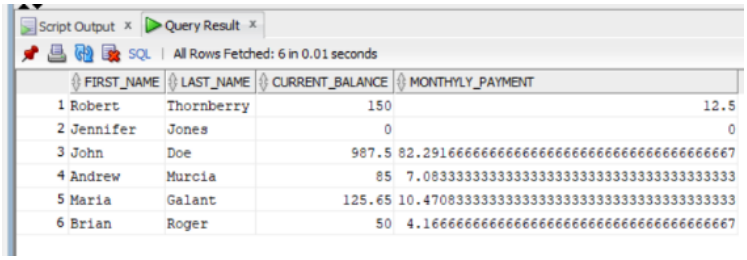
	NAME	NUMBER_OF_PLAYERS
1	Rockets	25
2	Celtics	42
3	Rovers	8
4	Jets	10

SELECT name, description, category FROM items;

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 quaity basball bat	equipment

SELECT first_name, last_name, current_balance, current_balance / 12 AS monthly_payment

FROM customers;

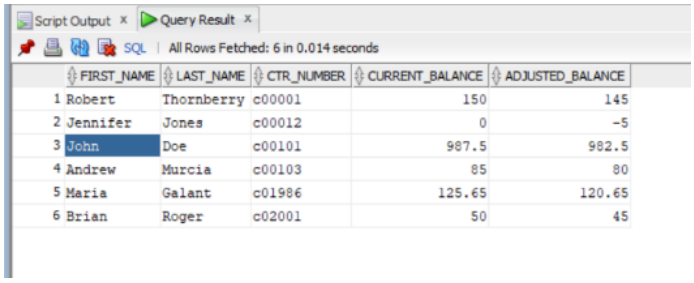


Script Output | Query Result | All Rows Fetched: 6 in 0.01 seconds

	FIRST_NAME	LAST_NAME	CURRENT_BALANCE	MONTHYLY_PAYMENT
1	Robert	Thornberry	150	12.5
2	Jennifer	Jones	0	0
3	John	Doe	987.5	82.291666666666666666666666666666666666667
4	Andrew	Murcia	85	7.083333333333333333333333333333333333333
5	Maria	Galant	125.65	10.470833333333333333333333333333333333333
6	Brian	Roger	50	4.166666666666666666666666666666666666667

SELECT first_name, last_name, ctr_number, current_balance, (current_balance - 5.00) AS adjusted_balance

FROM customers;



Script Output | Query Result | All Rows Fetched: 6 in 0.014 seconds

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

There can be a negative value if there are no constraint

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

Script Output | Query Result | All Rows Fetched: 4 in 0.006 seconds

	Team Information
1	The Rockets team has 25 players and receives adiscount of 10 percent.
2	The Celtics team has 42 players and receives adiscount of 20 percent.
3	The Rovers team has 8 players and receives adiscount of percent.
4	The Jets team has 10 players and receives adiscount of 5 percent.

2.The discount value of the third team is NULL that is why it is not shown.

PART 3

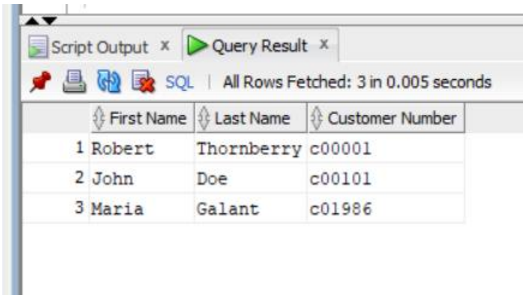
SELECT * FROM customers WHERE ctr_number = 'c01986';

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

2.SELECT first_name AS "First Name", last_name AS "Last Name", ctr_number AS "Customer Number"

FROM customers

WHERE current_balance > 100;



Script Output | Query Result | All Rows Fetched: 3 in 0.005 seconds

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

3.SELECT id AS "Order ID", odr_date AS "Order Date", odr_time AS "Order Time"

FROM orders

WHERE odr_date < TO_DATE('28-May-2019', 'DD-MM-YYYY');

Script Output | Query Result | All Rows Fetched: 5 in 0.002 seconds

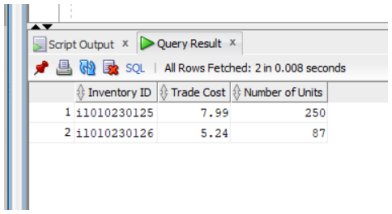
	Order ID	Order Date	Order Time
1	or0101250	17/04/2017	17/04/2017
2	or0101350	24/05/2017	24/05/2017
3	or0101425	28/05/2017	28/05/2017
4	or0101681	02/06/2017	02/06/2017
5	or0101750	18/06/2017	18/06/2017

PART 2

SELECT id AS "Inventory ID", cost AS "Trade Cost", units AS "Number of Units"

FROM inventory_list

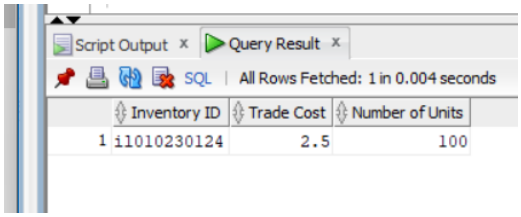
WHERE cost BETWEEN 3.00 AND 15.00;



PART 3 SELECT id AS "Inventory ID", cost AS "Trade Cost", units AS "Number of Units"

FROM inventory_list

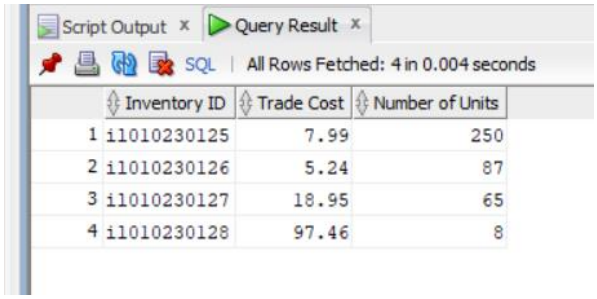
WHERE units IN (50, 100, 150, 200);



PART 4.SELECT id AS "Inventory ID", cost AS "Trade Cost", units AS "Number of Units"

FROM inventory_list

WHERE units NOT IN (50, 100, 150, 200);



PART 5.SELECT itm_number AS "Item Number", name AS "Item Name"

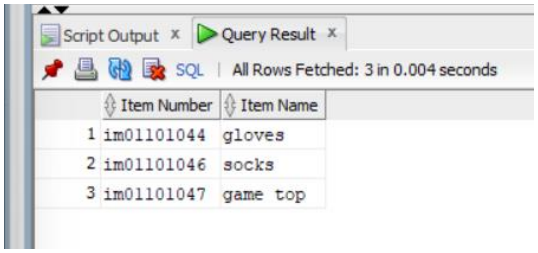
FROM items

WHERE name LIKE 'g%';

PART 6.SELECT itm_number AS "Item Number", name AS "Item Name"

FROM items

WHERE name LIKE '%o%';



PART 4

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.

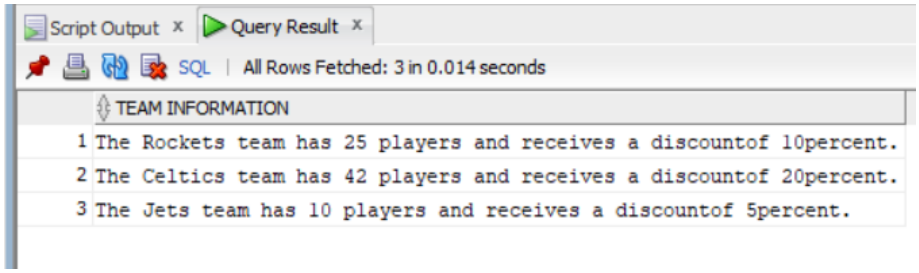
SELECT 'The '||NAME||' team has '||NUMBER_OF_PLAYERS||' players and does not receive a discount.' AS "TEAM INFORMATION" FROM TEAMS WHERE DISCOUNT IS NULL;

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 '||DISCOUNT||' percent.' AS "TEAM INFORMATION"

FROM TEAMS

WHERE DISCOUNT IS NOT NULL;



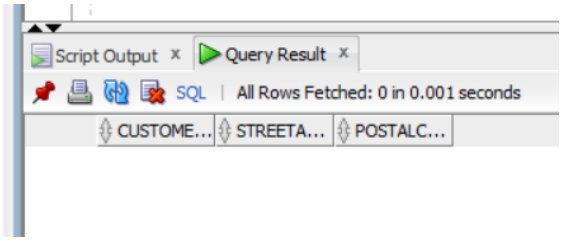
Part 2: Logical Operators: AND

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';
```



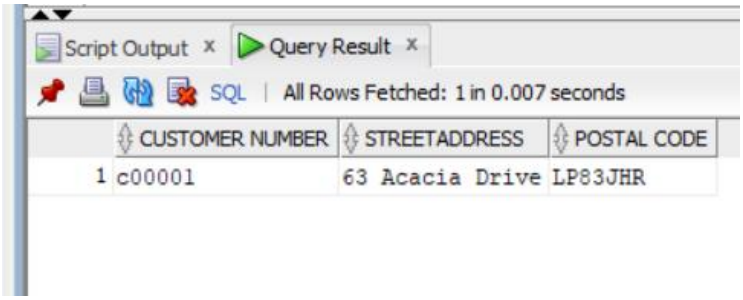
Part 3:

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';
```



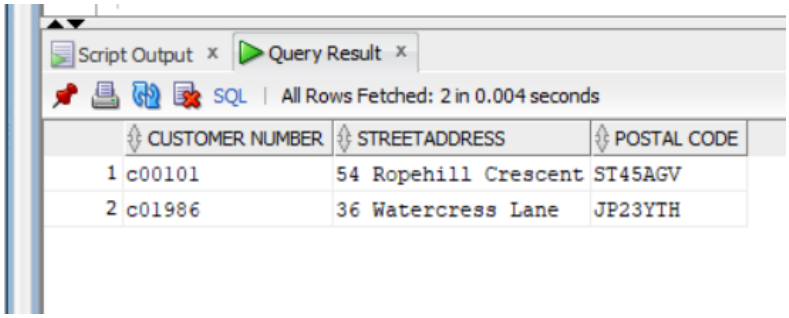
Part 4:

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')
```

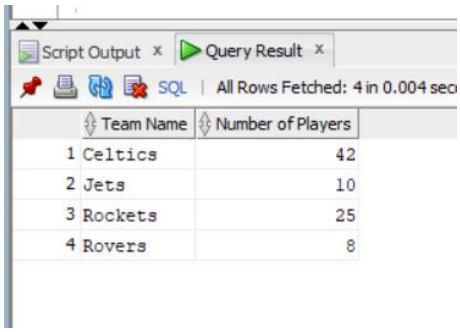


	CUSTOMER NUMBER	STREETADDRESS	POSTAL CODE
1	c00101	54 Ropehill Crescent	ST45AGV
2	c01986	36 Watercress Lane	JP23YTH

PART 5

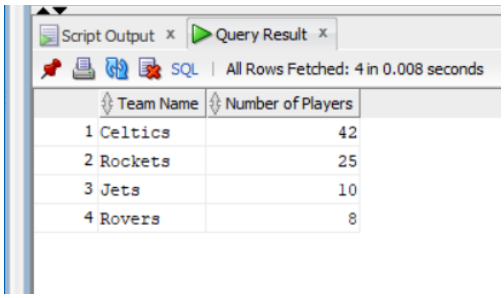
Part 1 :

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



PART 2

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



PART 6

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.

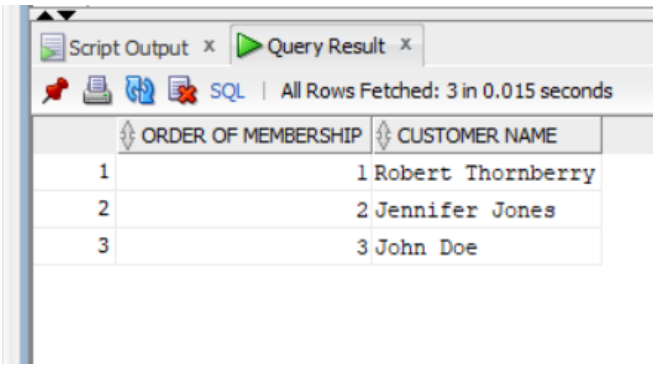
```
SELECT ROWNUM AS "ORDER OF MEMBERSHIP",FIRST_NAME||' '||LAST_NAME AS "CUSTOMER NAME"

FROM (SELECT FIRST_NAME,LAST_NAME

FROM CUSTOMERS

ORDER BY CTR_NUMBER)

WHERE ROWNUM<=3
```



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||' '||LAST_NAME AS "SALE REPRESENTATIVES"

FROM SALES_REPRESENTATIVES

 WHERE COMMISSION_RATE=:COMMISSION_RATE

ORDER BY LAST_NAME
```