

NAME: JUNAID GIRKAR

SAP ID: 60004190057

DIV: SE A (A3) COMPS

# **EXPERIMENT 5**

**AIM:** Perform Select operations.

## **THEORY:**

### **SELECT:**

The **SELECT** command is used to select data from a database. The data returned is stored in a result table, called the result set.

### **LIKE:**

The LIKE operator is used in a WHERE clause to search for a specified pattern in a column.

There are two wildcards often used in conjunction with the LIKE operator:

- % - The percent sign represents zero, one, or multiple characters
- \_ - The underscore represents a single character

### **MIN & MAX:**

The MIN() function returns the smallest value of the selected column.

The MAX() function returns the largest value of the selected column.

### **COUNT() , AVG() & SUM():**

The COUNT() function returns the number of rows that matches a specified criterion.

The AVG() function returns the average value of a numeric column.

The SUM() function returns the total sum of a numeric column.

## UNION:

The UNION operator is used to combine the result-set of two or more SELECT statements.

- Each SELECT statement within UNION must have the same number of columns
- The columns must also have similar data types
- The columns in each SELECT statement must also be in the same order

**NOW():** Returns the current date and time

**CURDATE():** Returns the current date

**CURTIME():** Returns the current time.

**DATE():** Extracts the date part of a date or date/time expression.

## SQL COMMANDS AND OUTPUTS:

```
select * from user;
```

user_id	Name	Email	Address
1	Junaid Girkar	<a href="mailto:junaidgirkar@gmail.com">junaidgirkar@gmail.com</a>	221 Bakers Street
2	Harry Potter	<a href="mailto:harrypotter@gmail.com">harrypotter@gmail.com</a>	4 Private Drive, Surry
3	Percy Jackson	<a href="mailto:percyjackson@gmail.com">percyjackson@gmail.com</a>	Camp Jupiter Long Island

```
update user set address='camp Half Blood, Long Island' where user_id=3;
```

user_id	Name	Email	Address
1	Junaid Girkar	<a href="mailto:junaidgirkar@gmail.com">junaidgirkar@gmail.com</a>	221 Bakers Street
2	Harry Potter	<a href="mailto:harrypotter@gmail.com">harrypotter@gmail.com</a>	4 Private Drive, Surry
3	Percy Jackson	<a href="mailto:percyjackson@gmail.com">percyjackson@gmail.com</a>	camp Half Blood, Long Island

select \* from user where name like 'J%';

user_id	Name	Email	Address
1	Junaid Girkar	<a href="mailto:junaidgirkar@gmail.com">junaidgirkar@gmail.com</a>	221 Bakers Street

select \* from user where name like '%r';

user_id	Name	Email	Address
1	Junaid Girkar	<a href="mailto:junaidgirkar@gmail.com">junaidgirkar@gmail.com</a>	221 Bakers Street
2	Harry Potter	<a href="mailto:harrypotter@gmail.com">harrypotter@gmail.com</a>	4 Private Drive, Surry

select \* from user where Name like '%rc%';

user_id	Name	Email	Address
3	Percy Jackson	<a href="mailto:percyjackson@gmail.com">percyjackson@gmail.com</a>	camp Half Blood, Long Island

select \* from user where name like '\_e%';

user_id	Name	Email	Address
3	Percy Jackson	<a href="mailto:percyjackson@gmail.com">percyjackson@gmail.com</a>	camp Half Blood, Long Island

```
select max(user_id) from user;
```

max(user_id)
3

```
select min(user_id) from user;
```

min(user_id)
1

```
select * from user order by name desc;
```

user_id	Name	Email	Address
3	Percy Jackson	<a href="mailto:percyjackson@gmail.com">percyjackson@gmail.com</a>	camp Half Blood, Long Island
1	Junaid Girkar	<a href="mailto:junaidgirkar@gmail.com">junaidgirkar@gmail.com</a>	221 Bakers Street
2	Harry Potter	<a href="mailto:harrypotter@gmail.com">harrypotter@gmail.com</a>	4 Private Drive, Surry

```
create table user1(ID int, name varchar(10));
```

```
Query OK, 0 rows affected (0.0475 sec)
```

```
create table user2(ID int, name varchar(10));
```

Query OK, 0 rows affected (0.0311 sec)

```
select * from user1 UNION select * from user2;
```

Empty set (0.0021 sec)

```
desc (select * from user1 union select * from user2);
```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+										
+-----+										
id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+										
+-----+										
1	PRIMARY	user1	NULL	ALL	NULL	NULL	NULL	NULL	1	100
2	UNION	user2	NULL	ALL	NULL	NULL	NULL	NULL	1	100
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										
+-----+										

user_id	Name	Email	Address
3	Percy Jackson	<a href="mailto:percyjackson@gmail.com">percyjackson@gmail.com</a>	camp Half Blood, Long Island

select \* from user where user\_id=2 or name like 'J%';

user_id	Name	Email	Address
1	Junaid Girkar	<a href="mailto:junaidgirkar@gmail.com">junaidgirkar@gmail.com</a>	221 Bakers Street
2	Harry Potter	<a href="mailto:harrypotter@gmail.com">harrypotter@gmail.com</a>	4 Private Drive, Surry

select user\_id,name,count(\*) from user group by user\_id;

user_id	name	count(*)
1	Junaid Girkar	1
2	Harry Potter	1
3	Percy Jackson	1

select curdate();

curdate()
2020-10-06

select day('2001-09-24');

day('2001-09-24')
24

```
select month('2001-09-24');
```

```
+-----+  
| month('2001-09-24') |  
+-----+  
|          9 |  
+-----+
```

```
select week('2001-09-24');
```

```
+-----+  
| week('2001-09-24') |  
+-----+  
|          38 |  
+-----+
```

```
select now();
```

```
+-----+  
| now() |  
+-----+  
| 2020-10-06 22:59:00 |  
+-----+
```

**CONCLUSION:** Thus, we have executed several different queries using select and various other operations.