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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 | [junaidgirkar@gmail.com](mailto:junaidgirkar@gmail.com) | 221 Bakers Street        |

|       2 | Harry Potter  | [harrypotter@gmail.com](mailto:harrypotter@gmail.com)  | 4 Private Drive, Surry   |

|       3 | Percy Jackson | [percyjackson@gmail.com](mailto:percyjackson@gmail.com) | Camp Jupiter Long Island |

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update user set address='camp Half Blood, Long Island' where user\_id=3;

+---------+---------------+------------------------+------------------------------+

| user\_id | Name          | Email                  | Address                      |

+---------+---------------+------------------------+------------------------------+

|       1 | Junaid Girkar | [junaidgirkar@gmail.com](mailto:junaidgirkar@gmail.com) | 221 Bakers Street            |

|       2 | Harry Potter  | [harrypotter@gmail.com](mailto:harrypotter@gmail.com)  | 4 Private Drive, Surry       |

|       3 | Percy Jackson | [percyjackson@gmail.com](mailto:percyjackson@gmail.com) | camp Half Blood, Long Island |

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

+---------+---------------+------------------------+-------------------+

| user\_id | Name          | Email                  | Address           |

+---------+---------------+------------------------+-------------------+

|       1 | Junaid Girkar | [junaidgirkar@gmail.com](mailto:junaidgirkar@gmail.com) | 221 Bakers Street |

+---------+---------------+------------------------+-------------------+

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

+---------+---------------+------------------------+------------------------+

| user\_id | Name          | Email                  | Address                |

+---------+---------------+------------------------+------------------------+

|       1 | Junaid Girkar | [junaidgirkar@gmail.com](mailto:junaidgirkar@gmail.com) | 221 Bakers Street      |

|       2 | Harry Potter  | [harrypotter@gmail.com](mailto:harrypotter@gmail.com)  | 4 Private Drive, Surry |

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

+---------+---------------+------------------------+------------------------------+

| user\_id | Name          | Email                  | Address                      |

+---------+---------------+------------------------+------------------------------+

|       3 | Percy Jackson | [percyjackson@gmail.com](mailto:percyjackson@gmail.com) | camp Half Blood, Long Island |

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

+---------+---------------+------------------------+------------------------------+

| user\_id | Name          | Email                  | Address                      |

+---------+---------------+------------------------+------------------------------+

|       3 | Percy Jackson | [percyjackson@gmail.com](mailto:percyjackson@gmail.com) | camp Half Blood, Long Island |

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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 | [percyjackson@gmail.com](mailto:percyjackson@gmail.com) | camp Half Blood, Long Island |

|       1 | Junaid Girkar | [junaidgirkar@gmail.com](mailto:junaidgirkar@gmail.com) | 221 Bakers Street            |

|       2 | Harry Potter  | [harrypotter@gmail.com](mailto:harrypotter@gmail.com)  | 4 Private Drive, Surry       |

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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 | Extra           |

+------+--------------+------------+------------+------+---------------+------+---------+------+------+----------+-----------------+

|    1 | PRIMARY      | user1      | NULL       | ALL  | NULL          | NULL | NULL    | NULL |    1 |      100 | NULL            |

|    2 | UNION        | user2      | NULL       | ALL  | NULL          | NULL | NULL    | NULL |    1 |      100 | NULL            |

| NULL | UNION RESULT | <union1,2> | NULL       | ALL  | NULL          | NULL | NULL    | NULL | NULL |     NULL | Using temporary |

+------+--------------+------------+------------+------+---------------+------+---------+------+------+----------+-----------------+

select name, user\_id from user;

+---------------+---------+

| name          | user\_id |

+---------------+---------+

| Junaid Girkar |       1 |

| Harry Potter  |       2 |

| Percy Jackson |       3 |

+---------------+---------+

select \* from user where user\_id > 2;

+---------+---------------+------------------------+------------------------------+

| user\_id | Name          | Email                  | Address                      |

+---------+---------------+------------------------+------------------------------+

|       3 | Percy Jackson | [percyjackson@gmail.com](mailto:percyjackson@gmail.com) | camp Half Blood, Long Island |

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

+---------+---------------+------------------------+------------------------+

| user\_id | Name          | Email                  | Address                |

+---------+---------------+------------------------+------------------------+

|       1 | Junaid Girkar | [junaidgirkar@gmail.com](mailto:junaidgirkar@gmail.com) | 221 Bakers Street      |

|       2 | Harry Potter  | [harrypotter@gmail.com](mailto:harrypotter@gmail.com)  | 4 Private Drive, Surry |

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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.