Object: To write SQL query using SELECT BETWEEN-AND, SELECT-IN and aggregate function SUM/COUNT/AVG

IN OPERATOR: - In operator allows you to easily test if the expression matches any value in the list of values. It is used to remove the need of multiple or condition.

BETWEEN AND: - The BETWEEN operators selects the values within a given range. The values can be numbers, text. It is inclusive begin and end values are included.

Syntax :-

Belect column\_name (s) from table-name where column\_name IN (value 1, value 2....);

Select column-name(s) from table-name where column-name between value 1 and value 2;

Query :-

select In from Employee where E\_ID(110, 111,116,117)

Select \* from Employee where E-ID IN (110, 111, 116, 117)

Select between and from Employee table

Belect & from Employee where E\_ID between 110 and 116.

| Secondary | Seco

32 35

```
MariaDB [lms]> select * from employee where eid < 116 and name = "Akash";
| eid | name | age | contactno | address | salary | designation
                                          | 10000 | Ast. Librarian |
                         654123 | lko
               32 |
 110 | Akash |
1 row in set (0.001 sec)
MariaDB [lms]> select * from employee where eid > 116 and salary <= 10000;
Empty set (0.001 sec)
MariaDB [lms]> select * from employee where eid > 110 and salary <= 10000;
              | age | contactno | address | salary | designation |
                                                5000 | Housekeeper
                          964476
                                   Bihar
 111 | Raja |
115 | Savita |
                  29
                                                       Housekeeper
                                                9000
                  29
                                   Mirzapur
                           99845
2 rows in set (0.001 sec)
```

MariaDE	[lms]> se	elect *	from employe	e where eid	i > 111;	
   eid	name	age	contactno	address	salary	designation
112     113     114     115     116     117     151	Dinesh Palak Alakh Savita Sudheer Shubh Suresh	26     31     28     29     35     30     001 sec	544476   98345   65745   99845   99999   98765   14576	Patna gkp Kolkata Mirzapur Jaunpur Kanpur Banglor	50000   90000   60000   9000 100000 900000 75000	Jr.Librarian Manager Gd. Worker Housekeeper Director Chairman Sr. Manager
lariaDE	[lms]> s	elect *	from employ	ee where ei	d < 117;	
eid	name	age	contactno	address	salary	designation
110 111	Akash Raja	32 29	654123 964476	lko   Bihar	10000	+   Ast. Libraria:   Housekeener

eid	пате	age	contactno	address	salary	designation
110 111 112 113 114 115 116	Akash Raja Dinesh Palak Alakh Savita Sudheer	32 29 26 31 28 29 35	654123 964476 544476 98345 65745 99845 99999	lko Bihar Patna gkp Kolkata Mirzapur Jaunpur	10000   5000   50000   90000   60000   9000	Ast. Librarian Housekeeper Jr.Librarian Manager Gd. Worker Housekeeper Director

Use Aggregate function -

SUM C)

MAXC

ANGICO

MINC

COUNT ()

Syntax: - Select function (column ) from table\_name;

Query :

Select Select Select MAX (salary) from Employee; Select MIN (salary) from Employee; Select \* from Employee Select Count (salary) from Employee; SUM (salary) from Employee; AVG (Salary) from Employee;

```
MariaDB [lms] > select min(salary) from employee;

| min(salary) |
| 5000 |
| 1 row in set (0.001 sec)

MariaDB [lms] > select max(salary) from employee;

| max(salary) |
| 1 row in set (0.000 sec)

MariaDB [lms] > select sum(salary) from employee;

| sum(salary) |
| sum(salary) |
| 1299000 |
| 1 row in set (0.000 sec)
```

GUL

```
MariaDB [lms] > select sum(salary) from employee;
| sum(salary) |
1299000
+------
1 row in set (0.000 sec)
MariaDB [lms] > select avg(salary) from employee;
| avg(salary) |
+----
144333.3333
1 row in set (0.000 sec)
MariaDB [lms] > select count(salary) from employee;
-----
| count(salary) |
1 row in set (0.000 sec)
```

Object :- To write SQL query using comparison operations (>, <, >=, <=) Lab Session-08

Syntax o-Query :select column 1 .... from table name where < condition>

select \* from Employee where E-ID <= 110 and Name = Akash" Select \* from Employee where E\_LD> 111; Select \* from Employee where E\_ID < 117; Select \* from Employee where E\_ID >= 116 and salary <= 10,000;

## Lab Session-09

Object: To write SQL query using logical operators (AND/OR/NOT)

AND operator: - Used to continue one or more condition. It displays a records if all the conditions erre TRUE or operators: The OR operators displays a record of any of the condition is TRUE

NOT operator :- The NOT operator displays a record it the condition is not TRUE

Syntax 3-

Select column 1 from table name where condition I AND Condition 2;

Select column 1 from table name where condition 1 or condition 2;

Select column 1 from table name where NOT condition;

Query:-

Select \* from Employee where E\_ID<110 AND NAME = "AMBER"; Select \* from Employee where E\_ID > 111 OR Salary. <= 15,000; Belect \* from Employee Where not E-ID = 116;

```
MariaDB [lms]> select * from employee where eid < 116 and name = "Amber";
              | age | contactno | address | salary | designation
 eid | name
                          65745 | Kolkata | 60000 | Gd. Worker
                 28 |
| 114 | Amber |
1 row in set (0.001 sec)
MariaDB [lms]> select * from employee where eid > 110 and salary <= 15000;
               | age | contactno | address | salary | designation
| eid | name
                                                        Housekeeper
                                                 5000
                           964476
                                                 9000 | Housekeeper
                                    64har
                  29
29
  111 | Raja
115 | Savita |
                                   Marzapur
                           99845
2 rows in set (0.000 sec)
```

eid	name	age	contactno	address	salary	designation
110	Akash	32	654123	1 the	10000	Ast. Libraria
111	flaja	29	964476	Bihar	5000	Housekeeper
112	Dinesh	26	544476	Patna	50000	Jr.Librarian
113	Palak	31	98345	gkp	90000	Manager
114	Amber	28	65745	Kolkata	60000	Gd. Worker
115 116	Savita	29	99845	Mirzapur	9000	Housekeeper
	Sudheer	35	99999	Jaunpur	100000	Director
		0.0				
117	Shubh	26	98765	Kanpur	900000	Chairman
117 151 Fows	Shubh Suresh in set (0	30 	14576 	Banglor	75000 +	Chairman   Sr. Manager
117 151 Fows	Shubh Suresh in set (0	30 	14576 	Bangler	75000 	Chairman   Sr. Manager
117 151 rows riadt	Shubh Suresh In set (0 [[ms]> s	30  +=====  000 se  elect *  ======  age	14576 +====================================	Bangler 	t eid m j	Chairman   Sr. Manager
117 151  rows riaOt eid	Shubh Suresh in set (0 [[ms]> s name   Akash	30 	14576 	ee where no address	t eid = 1	Chairman   SF. Manager   Chairman   Chairm
117 151 Fows ria00 eid	Shubh Suresh  in set (6 [lms]> s  name    Akash   Raja	30 	14576 	ee where no address   the like   bihar	t eid m j	Chairman   SF. Manager   Chairman   Chairm
117 151 rows riadt eid   110 	Shubh Suresh  In set (0 [[ms]> s name   Akash   Raja Dinesh	30 ,000 se elect * age   32   29   26	14576 from employ contactne   654123   964476	ee where no address   Lko   Bihar Patna	t eid = 1	Chairman    SF. Manager    Chairman   Chairm
117 151  ria00 eid   110   111   112   113	Shubh Suresh in set (0 [lms]> s name   Akash   Raja   Dinesh	30 ,000 se elect * age   32   29 26 31	14576 from employ contactno   654123   964476   544476   98345	ee where no address    Lko   Bihar   Patna   gko	t eid s j salary   10000   5000	Chairman Sr. Manager  16;  designation  Ast. Librarian Housekeeper Jr.Librarian
117 151 rows riadt eid   110 	Shubh Suresh in set (6 [[ms]> s name   Akash   Raja Dinesh Palak Amber	30 +	14576 c) from employ contactno   654123   964476   544476   98345   65745	ee where no address   lko   Bihar   Patna   gkp   Kolkata	t eid s j salary   10000   5000	Chairman Sr. Manager  designation  Ast. Librarian Housekeeper Jr. Librarian Manager
117 151 rows riadl eid   eid   110   111   112   113	Shubh Suresh in set (0 [lms]> s name   Akash   Raja   Dinesh	30 ,000 se elect * age   32   29 26 31	14576 from employ contactno   654123   964476   544476   98345	ee where no address    Lko   Bihar   Patna   gko	t eid = 1  Salary    10000   5000   90000	Chairman Sr. Manager  16;  designation  Ast. Librarian Housekeeper Jr.Librarian

Lab Session - 10

mon :- select column from table\_name like ("operator"); lect: To write Sal query using LIKE operator. Select \* from Employee where name select \* from Employee where name like 'a.... Select \* from Employee where name like " " a" select \* from Employee where name like 'a "/0"; like ( \_\_\_ a)

(309)

/ KCS 50

					-	
++	1 100000	Jaunpur	99999	35	Ada	116
to the total	- Sacary	address	contactno	age	name	eid
desi		Loyee Where	[lms]> select * from employee where	select		MariaDB
e = a = :	name like		ec)	0.000 s	row in set (0.000 sec)	1 row
OTT COL	100000 1	Jaunpur	99999	35	Ada	1 116
designation	- † -	address	contactno	age	name	eid
= a= -	Like	oyee where	Select * from employee where name	(0.000 sec)	in set	3 rows :
		+	-			1110
Housekeeper     Director	1 100000	Bihar   Mirzapur   Jaunpur	66666 1 984426 1 9644176	29 1 29 1 35	Raja Savita	111
t Louisekeeper	salary	address	contactno	age	t	+
%a"; designation	ame Like "	yee where n	[lms]> select * from employee where name like "%a";	select	aDB [lms]>	MariaDB
			sec)	(0.001 sec)	1 +	4
Gd. Worker     Director	+	lko Kolkata   Jaunpur   ]	65#123   657#5   99999	32     28     35	Akash   Amber   Ada	116 114 110
Ast. Librarian	TABBB   AS	ress	contactno	age	name	eid
designation	me Like a	ee where nau	from employ	select '		MariaDB
% = ·	1 2 1 2 1 2 2		× + <	- mysql -u	Command Prompt - mysql -u X	

L(309) C(S, S, C) C(S, S, C) C(S, S, C) C(S, S, C)

2129