Experiment - 1.2

Student Name: **Shivam Kumar**   UID: **21BCS2124**

Section/Group: **21BCS-605(A)**   Branch: **BE-CSE**

Subject Code: **21CSH - 214**   Subject Name: **DBMS**

Date of Performance: **02/09/2022**   Semester: **3rd**

AIM:

To explore "SELECT" clause using where, order by, between, like, group by, having etc.

DBMS script and output:

Creating Tables and inserting values:

```
create table students(student_id int, first_name varchar(255), last_name varchar(255), section varchar(255), Address varchar(255))

Table created.

insert into students(student_id, first_name, last_name, section, Address) values('111','Shivam','Kumar','A','Panchkula')

1 row(s) inserted.

insert into students(student_id, first_name, last_name, section, Address) values('112','Karan','Mali','B','Pinjore')

1 row(s) inserted.

insert into students(student_id, first_name, last_name, section, Address) values('113','Shashwat','Pratap','C','Kharar')

1 row(s) inserted.

insert into students(student_id, first_name, last_name, section, Address) values('114','Sampanna','Shukla','D','Chandimandir')

1 row(s) inserted.

insert into students(student_id, first_name, last_name, section, Address) values('115','Shubham','Kumar','E','Panchkula')

1 row(s) inserted.
```

WHERE Command:

Syntax: select * from *table_name* where *Condition*;

```
select * from students where Address='Panchkula'
```

STUDENT_ID	FIRST_NAME	LAST_NAME	SECTION	ADDRESS
111	Shivam	Kumar	A	Panchkula
115	Shubham	Kumar	E	Panchkula

2 rows selected.

LIKE Command:

Syntax: select * from *table_name* where *Condition* like *pattern*;

```
select * from students where first_name LIKE 'S%'
```

STUDENT_ID	FIRST_NAME	LAST_NAME	SECTION	ADDRESS
111	Shivam	Kumar	A	Panchkula
113	Shashwat	Pratap	C	Kharar
114	Sampanna	Shukla	D	Chandimandir
115	Shubham	Kumar	E	Panchkula

4 rows selected.

IN Command:

Syntax: select * from *table_name* where *Condition* in *(select statement)*;

```
select * from students where last_name in ('Kumar')
```

STUDENT_ID	FIRST_NAME	LAST_NAME	SECTION	ADDRESS
111	Shivam	Kumar	A	Panchkula
115	Shubham	Kumar	E	Panchkula

2 rows selected.

BETWEEN Command:

Syntax: select * from *table_name* where *Condition* between *value1* and *value2*;

```
select * from students where student_id between '112' and '115'
```

STUDENT_ID	FIRST_NAME	LAST_NAME	SECTION	ADDRESS
112	Karan	Mali	B	Pinjore
113	Shashwat	Pratap	C	Kharar
114	Sampanna	Shukla	D	Chandimandir
115	Shubham	Kumar	E	Panchkula

4 rows selected.

ORDER BY Command:

Syntax: select * from *table_name* where *Condition* order by *column_name*;

```
select * from students order by student_id desc
```

STUDENT_ID	FIRST_NAME	LAST_NAME	SECTION	ADDRESS
115	Shubham	Kumar	E	Panchkula
114	Sampanna	Shukla	D	Chandimandir
113	Shashwat	Pratap	C	Kharar
112	Karan	Mali	B	Pinjore
111	Shivam	Kumar	A	Panchkula

5 rows selected.

AND Command:

Syntax: select * from *table_name* where *Condition1* and *condition2*;

```
select * from students where student_id='111' and first_name='Shivam'
```

STUDENT_ID	FIRST_NAME	LAST_NAME	SECTION	ADDRESS
111	Shivam	Kumar	A	Panchkula

OR Command:

Syntax: select * from *table_name* where *Condition1* or *condition2*;

```
select * from students where student_id='111' or first_name='Shivam'
```

STUDENT_ID	FIRST_NAME	LAST_NAME	SECTION	ADDRESS
111	Shivam	Kumar	A	Panchkula

GROUP BY Command:

Syntax: select * from *table_name* where *Condition* group by *column_name*;

```
SELECT MAX(student_id), Address
FROM students
GROUP BY Address
```

MAX(STUDENT_ID)	ADDRESS
113	Kharar
115	Panchkula
112	Pinjore
114	Chandimandir

4 rows selected.

Learning Outcomes:

1. We have learnt about using different clause to use with SELECT command.
2. We have learnt about applying aggregate functions in my sql.
3. We have learnt about applying conditions on tables.

Evaluation Grid:

Sr. No.	Parameters	Maximum Marks	Marks Obtained
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day).	8	
2.	Viva Voce	10	
3.	Student Engagement in Simulation/Demonstration/Performance and Controls	12	
	Signature of Faculty (with Date):	Total Marks Obtained out of 30:	