PRACTICAL-1

Aim: To create table and insert data

Query: CREATE

```
create table Student (
 Student_ id int not null,
 First_ name varchar (40) not null,
 Last_ name varchar (30) not null,
 Address varchar (100) not null,
 Primary Key (Student_ id),
 Unique (First_ name)
);
```

Output:

Student

Student_id	First_name	Last_name	Address
empty			

Query: INSERT

```
INSERT INTO Student (Student_ id, First_ name ,Last_ name, Address)
VALUES(1,"ISHAAN","PATEL","AHMEDABAD");
INSERT INTO Student (Student_ id, First_ name ,Last_ name, Address)
VALUES(2,"HARSHIT","TRIVADI","NIKOL");
INSERT INTO Student (Student_ id, First_ name, Last_ name, Address)
```

VALUES(3,"LISA","DEO","RANIP");

INSERT INTO Student (Student_ id, First_ name, Last_ name, Address)

VALUES(4,"RINA","JAIN","GOTA");

INSERT INTO Student (Student_ id, First_ name ,Last_ name, Address)

VALUES(5,"AKSHAT","PATEL","GANDHINAGAR");

Output:

Student

Student_id	First_name	Last_name	Address
1	ISHAAN	PATEL	AHMEDABAD
2	HARSHIT	TRIVADI	NIKOL
3	LISA	DEO	RANIP
4	RINA	JAIN	GOTA
5	AKSHAT	PATEL	GANDHINAGAR

PRACTICAL-2

Aim: To Make changes in the following table using various DDL and DML commands (alter, update, drop, select).

Student

Student_id	First_name	Last_name	Address
1	ISHAAN	PATEL	AHMEDABAD
2	HARSHIT	TRIVADI	NIKOL
3	LISA	DEO	RANIP
4	RINA	JAIN	GOTA
5	AKSHAT	PATEL	GANDHINAGAR

Query: ALTER

```
alter table Student add email varchar (34);
select * from student;
```

Output:

Student_id	First_name	Last_name	Address	email
1	ISHAAN	PATEL	AHMEDABAD	
2	HARSHIT	TRIVADI	NIKOL	
3	LISA	DEO	RANIP	
4	RINA	JAIN	GOTA	
5	AKSHAT	PATEL	GANDHINAGAR	

Query: UPDATE

```
update Student set email = "ishaan@sql.com"
where Student_id =1;
select * from student;
```

Output:

Student_id	First_name	Last_name	Address	email
1	ISHAAN	PATEL	AHMEDABAD	ishaan@sql.com
2	HARSHIT	TRIVADI	NIKOL	
3	LISA	DEO	RANIP	
4	RINA	JAIN	GOTA	
5	AKSHAT	PATEL	GANDHINAGAR	

PRACTICAL-3

Aim: To perform various DML commands, aggregate functions and sorting concept on created tables.

Student

Roll	Name	Address	Age
1	ISHAAN	AHMEDABAD	18
2	HARSHIT	NIKOL	17
3	LISA	RANIP	19
4	RINA	GOTA	18
5	AKSHAT	GANDHINAGAR	17

Query: LIKE

select* from Customers where Country like '__A%';

select* from Customers where first_ name like 'J_%';

select* from Customers where customer_ id like '3';

Output:

Output

customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
2	Robert	Luna	22	USA

customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
4	John	Reinhardt	25	UK

customer_id	first_name	last_name	age	country
3	David	Robinson	22	UK

Query: BETWEEN

select* from Customers where age Between 25 and 28;

select* from Customers where age>22 and age<31;

Output:

Output

customer_id	first_name	last_name	age	country
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

customer_id	first_name	last_name	age	country
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

Query: IN

select *from Customers where age in (22,28);

Output:

Output

customer_id	first_name	last_name	age	country
2	Robert	Luna	22	USA
3	David	Robinson	22	UK
5	Betty	Doe	28	UAE

Query: AVERAGE

select avg (age) from Student;

Output:

Output

avg(age)
17.8

Query: COUNT

select count(distinct age) from Student;

select count(*) from Student where age>18;

Output:

Output

count(distinct age)
3

count(*)
1

Query: SUM

select sum(age) from STUDENT;

Output:

Output

sum(age)
89

Query: MAXIMUM

select max(age) from Student;

Output:

Output

max(age)
19

Query: MINIMUM

select min(age) from Student;

Output:

min(age)
17