**TASK 1**

1.Write a query to create role table which have the following details. Sample Query: create table role (id BIGINT(20), name varchar(255) NOT NULL, primary key(id));

create table role(id bigint(20) primary key,name varchar(255) NOT NULL);

2. Write a query to create skill table. Please note that the field description can be NULL and the default value is NULL

create table skill(id bigint(10) primary key,description varchar (255),name varchar(255) NOT NULL);

3. Write a query to create post\_type table.

create table post\_type(id bigint(20) primary key,name varchar(255) NOT NULL);

4. Write a query to create department table.

create table department(id bigint(20) primary key,name varchar(255) NOT NULL);

5. Write a query to create degree table.

create table degree(id bigint(20) primary key, foreign key (department\_id) references department(id), name varchar(255) NOT NULL);

6. Write a query to create profile table. Please note that designation field can be NULL and the default value is NULL.

create table profile(id bigint(20) primary key, address varchar(255) NOT NULL, batch varchar(255) NOT NULL, foreign key (degree\_id) references degree(id), designation varchar(255), gender varchar(255) NOT NULL);

7. Write a query to create higher\_degree table. Please note that fields degree\_name and university\_name can be NULL and the default value is NULL.

create table higher\_degree(id bigint(20), degree\_name varchar(255), university\_name varchar(255), foreign key (profile\_id) references profile(id));

8. Write a query to create experience table. Please note that filed end can be NULL and Default value is NULL.

create table experience (id bigint(20) primary key, company\_name varchar(255) NOT NULL, current bit(1) NOT NULL, end datetime, start datetime NOT NULL, foreign key (profile\_id) references profile(id));

9. Write a query to create project table. Please note that field short\_description can be NULL and the default value is NULL.

create table project (id bigint(20), name varchar(255) NOT NULL, number\_of\_members int(11) NOT NULL, foreign key (profile\_id) references profile(id), short\_description varchar(255));

10. Write a query to create profile\_skills table.

create table profile\_skills(skill\_id bigint(20) primary key, profile\_id bigint(20) primary key);

11. Write a query to create user table. Please note that the field profile\_id can be NULL and the default value is NULL.

create table user (id bigint(20) primary key, emailid varchar(255) NOT NULL, name varchar(255) NOT NULL, password varchar(255) NOT NULL, phone\_number varchar(255) NOT NULL, foreign key (profile\_id) references profile(id), foreign key (role\_id) references role(id), username varchar(255) NOT NULL);

12. Write a query to create query table. Please note that field parent\_id can be NULL and the default value is NULL.

create table query (id bigint(20) primary key, content varchar(255) NOT NULL, date datetime NOT NULL, parent\_id bigint(20), foreign key (user\_id) references user(id));

13. Write a query to create event table. Please note that field description can be NULL and the default value is NULL.

create table event (id bigint(20) primary key, date datetime NOT NULL, description varchar(255), invitation varchar(255) NOT NULL, name varchar(255) NOT NULL, foreign key (organiser\_id) references user(id));

14. Write a query to create post table.

create table post(id bigint(20) primary key, content varchar(255) NOT NULL, date datetime NOT NULL, foreign key(type\_id) references post\_type(id), foreign key(user\_id) references user(id) ;

15. Write a query to add a new column named description of type varchar(255) to role table.

alter table role add column description varchar(255);

16. Write a query to change the type of field description in the role table to varchar(500);

alter table role modify description varchar(500);

17. Write a query to remove the column description from the role table.

alter table role drop column description;

18. Write a query to rename table role to roles.

alter table role rename roles;

19. Write a query to rename table roles to role.

alter table roles rename role;

20. Write a query to add a new column named user\_id of type BIGINT(20) to department table.

alter table department add column user\_id bigint(20);

21. Write a query to add a constraint to the department table. user\_id is a foreign key and it references id in the user table.

alter table department add constraint FK\_userid foreign key user\_id references user(id);

22. Write a query to drop the column user\_id from the department table.

alter table department drop column user\_id;

23. Write a query to rename table department to departments.

alter table department rename departments;

24. Write a query to delete the table profile\_skills.

drop table profile\_skills;

25. Write a query to delete post table.

drop table post;