CREATE TABLE EMPL(  
E\_ANME VARCHAR(20),  
SALARY VARCHAR(20),  
DEPTNO VARCHAR(20),  
DEPTNAME VARCHAR(20));  
  
INSERT INTO EMPL VALUES('RISHABH','2000','10','SALES'),  
('RAKESH','1000','20','HR'),  
('SAHIL','3000','40','MANAGER'),  
('PRAKASH','20','00','CHAI WALA'),  
('VINAYAK','400','30','EVENT MANAGER');  
  
SELECT CONCAT(E\_ANME, CONCAT(' HAVING ', CONCAT(SALARY, CONCAT(' SALARY ', CONCAT(' WORKING AS ',   
CONCAT(' DEPT\_NO ', CONCAT(DEPTNO, CONCAT(' AS ', DEPTNAME)))))))) FROM EMPL  
WHERE E\_ANME IN ('RISHABH','RAKESH','SAHIL','PRAKASH');  
  
SELECT E\_ANME || ' HAVING ' || SALARY || ' SALARY WORKING AS   
DEPT\_NO ' || DEPTNO || ' AS ' || DEPTNAME FROM EMPL  
WHERE E\_ANME IN ('RISHABH','RAKESH','SAHIL','PRAKASH');

// report generation.

***-- ALTER***

drop table student

create table student

(

id int,

fname char(10),

mname varchar(10),

laname varchar(10),

dob date,

state char(20),

x\_school varchar(20),

primary key (id)

)

select \* from student

***-- Add column***

alter table student add column city varchar(20);

select \* from student

***-- Drop column***

alter table student drop column x\_school;

select \* from student

***-- Remane column***

alter table student rename column city to birth\_city;

select \* from student

***-- Change data type***

ALTER TABLE student ALTER COLUMN fname TYPE varchar(20);

select \* from student

***-- Rename table name***

alter table student rename to student\_new;

select \* from student\_new;

***-- Add constraint NOT NULL***

select \* from student\_new

alter table student\_new alter column fname SET NOT NULL;

insert into student\_new (id) values (1)

insert into student\_new (id, fname) values (1,'abc')

select \* from student\_new;

***-- Drop constraint NOT NULL***

select \* from student\_new

alter table student\_new alter column fname DROP NOT NULL;

insert into student\_new (id) values (2)

select \* from student\_new;

***-- to add check constraint while creating relation***

CREATE TABLE student

(

id int,

dob date check (dob>'2015-01-01'),

primary key (id)

)

select \* from student

insert into student values (1,'2015-01-02')

insert into student values (2,'2014-01-02')

***-- to add or drop check constraint, if the relation already exist***

alter table student\_new add constraint age check (dob>'2015-01-01')

insert into student\_new (id, dob) values (4,'2014-01-02')

alter table student\_new drop constraint age;

insert into student\_new (id, dob) values (4,'2014-01-02')

select \* from student\_new;

***-- add primary key constraint***

drop table branch;

create table branch

(

bid int,

bname varchar(20)

)

insert into branch values (1,'civil');

insert into branch values (1,'cse');

alter table branch add primary key (bid)

delete from branch where bid = 1

alter table branch add primary key (bid)

insert into branch values (1,'civil');

insert into branch values (1,'cse'); --should give error

***-- add foreign key constraint***

drop table degree;

create table degree

(

did int,

dname varchar(20),

primary key (did)

)

alter table branch add column degree\_name int;

alter table branch add constraint fk\_degree foreign key (degree\_name) references

degree (did);

insert into degree values (1,'BE'),(2,'MTECH')

insert into branch values (3, 'ELE', 1)

insert into branch values (4, 'ETC', 3) -- should give error