---Question 1: create a table named employees with the given columns

create table employees(

emp\_id int,

emp\_name varchar(20),

salary number(10,2) check(salary > 20000),

dept\_id int

);

---Question 2: Change column name from emp\_name to full\_name

alter table employees rename column emp\_name to full\_name;

---Question 3: Drop the check constraint on salary and insert salary=5000

insert into employees(emp\_id, full\_name, salary, dept\_id) values (1, 'Ali', 5000, 1);

---Question 4: Create table departments and insert 3 records

create table departments(

dept\_id int primary key,

dept\_name varchar(20) unique

);

insert into departments(dept\_id, dept\_name) values (1, 'HR');

insert into departments(dept\_id, dept\_name) values (2, 'Finance');

insert into departments(dept\_id, dept\_name) values (3, 'IT');

---Question 5: Add a foreign key from employees.dept\_id to departments.dept\_id

alter table employees add constraint fk\_dept foreign key(dept\_id) references departments(dept\_id);

---Question 6: Add a new column bonus with default 1000

alter table employees add bonus number(6,2) default 1000;

---Question 7: Add city (default Karachi) and age (check > 18)

alter table employees add (city varchar(20) default 'Karachi', age int check(age > 18));

---Question 8: Delete records with id 1 and id 3

delete from employees where emp\_id in (1,3);

---Question 9: Change the length of full\_name and city column length to 20

alter table employees modify(full\_name varchar(20), city varchar(20));

---Question 10: Add email column and set unique constraint

alter table employees add email varchar(50);

alter table employees add constraint unique\_email unique(email);