CREATE TABLE Employee(

Id int,

Name varchar(20),

Address varchar(50),

City varchar(50),

Department varchar(20),

Salary int

);

INSERT INTO Employee(Id,Name,Address,City,Department,Salary) VALUES (1,'Sreedev','Attithara kidangara','Alappuzha','Computer',10000);

SELECT \* FROM Employee;

INSERT INTO Employee(Id,Name,Address,City,Department,Salary)

VALUES (1,'yadhu','vietnam colony','Alappuzha','Computer',30000);

INSERT INTO Employee(Id,Name,Address,City,Department,Salary)

VALUES (1,'unnikrishnan','Kaavalam','Alappuzha','Computer',5000);

SELECT \* FROM Employee where Name='Sreedev';

DROP TABLE IF EXISTS employee;

CREATE TABLE employee( emp\_id int primary key, emp\_name varchar(20), designation varchar(30), department varchar(20), salary int);

SELECT \* FROM employee;

INSERT INTO employee (emp\_id, emp\_name, designation, department, salary) VALUES

(101, 'Aarav', 'Software Engineer', 'Development', 25000),

(102, 'Isha', 'Data Analyst', 'Data Science', 22000),

(103, 'Vikram', 'Web Developer', 'Development', 27000),

(104, 'Sita', 'UI/UX Designer', 'Design', 23000),

(105, 'Ravi', 'System Administrator', 'IT Support', 20000),

(106, 'Anaya', 'Project Coordinator', 'Project Management', 24000),

(107, 'Rahul', 'Project Administrator', 'Project Management', 26000),

(108, 'Priya', 'Business Analyst', 'Business Analysis', 25000),

(109, 'Karthik', 'DevOps Engineer', 'Development', 28000),

(110, 'Meera', 'Quality Assurance', 'Project Management', 21000),

(111, 'Sneha', 'Technical Writer', 'Documentation', 19000);

delete from employee where emp\_name= 'Priya';

--order by:

select emp\_name , salary from employee order by salary asc;

--second highest salary

select emp\_name ,salary from employee where

salary = (select max(salary) from employee

where salary < (select max(salary) from employee));

--using distict keyword

SELECT DISTINCT department FROM employee;

--count and distinct

SELECT COUNT(DISTINCT department) AS dept\_details FROM employee;

SELECT COUNT(\*) AS dept\_details FROM (

SELECT DISTINCT department FROM employee

) AS unique\_dept;

--above alias is used

SELECT emp\_id FROM employee AS EMP\_ID;

ALTER TABLE employee ADD age int;

select \* from employee;

update employee SET age=20 where emp\_name='Aarav';

select \* from employee where salary>25000;

select \* from employee where salary= (select max(salary) from employee);

select avg(salary) as avg\_salary from employee;

select distinct(count(\*)) as no\_of\_records from employee;

create table customer(

cust\_id int primary key,

name varchar(15),

city varchar(20)

);

insert into customer(cust\_id,name,city)

values(1,'sreedev','alappuzha');

insert into customer values(

2,'yadhu','mariyampally'),

(3,'jinson','pooppally'),

(4,'dano','champakkulam');

select \* from customer;

create table products(

pro\_id int primary key,

name varchar(20),

place varchar(20),

cust\_id int

foreign key(cust\_id) references customer(cust\_id)

);

insert into products(pro\_id,name,place,cust\_id)

values(1,'samsung','alappuzha',1);

insert into products

values(2,'apple','thodupuzha',2),

(3,'watch','kottayam',3),

(4,'redmi','changanacherry',2);

insert into products values(

5,'apple','kidangara',3);

select \* from products;

--joins

select customer.name as cust\_name,products.name as product\_name from customer inner join products on customer.cust\_id=products.pro\_id;

ALTER TABLE customer

ADD phone\_number VARCHAR(15);

ALTER TABLE customer

DROP COLUMN phone\_number;

EXEC sp\_rename 'customer.name', 'cust\_name', 'COLUMN';

EXEC sp\_rename 'products.name', 'product\_name','COLUMN';

select \* from customer join products on customer.cust\_id=products.pro\_id;

select \* from customer join products on customer.cust\_id=products.pro\_id where customer.cust\_id=2;

select distinct(customer.city) as city\_list,product\_name from customer join products on customer.cust\_id=products.pro\_id;

select cust\_name,city from customer join products on customer.cust\_id=products.cust\_id

where products.product\_name='apple';

--left join

select \* from customer left join products on customer.cust\_id=products.cust\_id;

--right join

select \* from customer right join products on customer.cust\_id=products.cust\_id;

--full join

select \* from customer full join products on customer.cust\_id=products.cust\_id;--shows the both tables .dano is included

select \* from customer inner join products on customer.cust\_id=products.cust\_id;--dano dont buy any columns so he is ignored

select \* from customer join products on customer.cust\_id=products.cust\_id;--dano is ignored

select \* from employee order by salary desc;

select count(\*) from employee group by department;

select distinct(department),count(\*) as number\_of\_employees

from employee group by department order by department asc;

--stored procedures

create procedure emp\_records

as

begin

select \* from employee;

end;

exec emp\_records;

--parameterized stored procedures

create procedure emp\_select

@emp\_id int

as

begin

select \* from employee where emp\_id=@emp\_id;

end;

exec emp\_select @emp\_id=101;

create procedure emp\_count\_dept

@id int,

@salary decimal(10,2)

as

begin

update employee set salary=@salary where emp\_id=@id;

end;

exec emp\_count\_dept @id=102,@salary=25000.07;

select \* from employee;

create procedure emp\_dept\_count

as

begin

select distinct(department),count(\*) as count\_emp

from employee group by department;

end;

exec emp\_dept\_count;

--if

create procedure age\_emplo

@emp\_age int=null

as

begin

if @emp\_age is null

select \* from employee where age=null;

else

select \* from employee where age=@emp\_age;

end

exec age\_emplo;

--operators

select salary,salary\*0.10 as bonus from employee;

select \* from employee where salary>25000;

select emp\_name,salary from employee where salary>18000 and salary<25000

order by salary asc;

select cust\_id from customer intersect

select cust\_id from products;

select \* from products;

select \* from customer;

--in opeartor

select \* from employee where age in (20,28,10);

update employee set age=23 where emp\_id=103;

update employee set age=28 where age=23;

select \* from employee;

--between

select \* from employee where salary between 20000 and 22000;

--null opertor

select \* from employee where age is null;

select \* from employee where age is not null;

--concat 2 strings

select emp\_name+' '+department as empl\_dept from employee;

select emp\_name+' '+department as empl\_dept from employee

where age=20;

--select top

select top 3 \* from employee;

select top 50 percent \* from employee where salary<20000;

select top 5 \* from employee where salary>20000;

--like

select emp\_name from employee where emp\_name like 'r%';

select emp\_name from employee where emp\_name like '%a';