**Sub Query**

-- Query 01:Patient details

select P\_Id as "Patient ID", P\_Name as "Patient Name", Disease\_details

from patient;

-- Query 02:Doctor details

select staff.St\_name as "Doctor Name", doctor.Dr\_type as "Doctor Type"

from staff, doctor

where staff.St\_id=doctor.St\_id;

-- Query 03:nurse work in each room details

select N\_id AS "Nurse ID", room\_id AS "Nurse working room"

from nurse\_works\_in;

**Select Statesment Using Different Function**

-- Query 01:Patient details

select P\_Id as "Patient ID", P\_Name as "Patient Name", Disease\_details

from patient;

-- Query 02:Doctor details

select staff.St\_name as "Doctor Name", doctor.Dr\_type as "Doctor Type"

from staff, doctor

where staff.St\_id=doctor.St\_id;

-- Query 03:nurse work in each room details

select N\_id AS "Nurse ID", room\_id AS "Nurse working room"

from nurse\_works\_in;

-- Query 04:Bill information of each patient

select patient.P\_Id AS "Patient ID", patient.P\_Name AS "Patient Name", patient.Address, bill.Bill\_id, bill.Medicine\_charges, bill.Treatment\_charges, bill.Doctor\_charges

from patient, bill

where patient.Bill\_id=bill.Bill\_id;

-- Query 05:Test results of each patient

select patient.P\_Name as "Patient Name", test.Test\_name, patient\_check\_test.Result

from patient, test, patient\_check\_test

where patient.P\_Id=patient\_check\_test.P\_id AND test.Test\_Id=patient\_check\_test.Test\_id;

-- Query 06:Medicine details of each supplier

select supplier.S\_name, medicine.Medicine\_name, medicine.Stock\_details

from supplier, medicine, medicine\_supply

where supplier.S\_id=medicine\_supply.S\_id AND medicine.Medicine\_id=medicine\_supply.Medicine\_id;

-- Query 07:Guardian details of each patient

select patient.P\_Name as "Patient Name", patient\_guardian.G\_name as "Patient Guardian Name", patient\_guardian.Relationship

from patient, patient\_guardian

where patient.P\_Id=patient\_guardian.P\_Id;

-- Query 08:Family details of each staff member

select staff.St\_name as "Staff member Name", staff\_family.R\_name as "Family member Name", staff\_family.Relationship

from staff, staff\_family

where staff.St\_id=staff\_family.St\_id;

-- Query 09:Inpatient details

SELECT IP.P\_id,P.P\_name AS "Patient Name",P.Gender,P.Address,P.DOB,P.Blood\_group,P.Contact\_no,P.Room\_id,P.Disease\_details,IP.Arrival\_date,IP.Discharge\_date,S.St\_name AS "Doctor Name"

FROM In\_patient AS IP, Patient AS P, Doctor AS D,Staff AS S

WHERE IP.P\_id=P.P\_id AND P.Dr\_id=D.Dr\_id AND S.St\_id=D.St\_id;

-- Query 10:Outpatient details

SELECT OP.P\_id,P.P\_name AS "Patient Name",P.Gender,P.Address,P.DOB,P.Blood\_group,P.Contact\_no,P.Disease\_details,S.St\_name AS "Doctor Name"

FROM Out\_patient AS OP, Patient AS P, Doctor AS D,Staff AS S

WHERE OP.P\_id=P.P\_id AND P.Dr\_id=D.Dr\_id AND S.St\_id=D.St\_id;

-- Query 11:Bill details

SELECT B.Bill\_id,P.P\_id,P.P\_name,B.Medicine\_charges,B.Treatment\_charges,B.Doctor\_charges,(B.Medicine\_charges + B.Treatment\_charges + B.Doctor\_charges) AS "Total Amount",B.Method,B.B\_date AS "Bill Date",B.Bill\_Status

FROM Bill AS B,Patient AS P

WHERE B.Bill\_id=P.Bill\_id;

**Count and Group Function**

SELECT Blood\_Group, COUNT(patient\_ID) AS "Number of patient"

FROM record

GROUP BY Blood\_Group;

-- Count and Group Functions Query 02 (Can view number of bills group by Payment Method)

SELECT payment\_method.PMType AS "Payment Method", COUNT(paid\_by.Bill\_ID) AS "Number of Bills"

FROM payment\_method, paid\_by

WHERE payment\_method.Method\_ID=paid\_by.Method\_ID

GROUP BY payment\_method.PMType;

**Different Joins**

-- related rooms for department

select \* from department natural join room;

-- Information of staff members and their family member details

select \* from staff left join staff\_family on staff.St\_id=staff\_family.St\_id;

-- test details occur in laboratary

select \* from test right join laboratary on test.Lab\_ID=laboratary.Lab\_ID;

-- contact and location information of each supplier

select \* from supplier natural join supplier\_contact\_no;

-- details of wardboy assigning each room

select \* from room natural join wardboy\_works\_in;

**Update Statement**

-- Update Statement 01

UPDATE Department

SET Location = 'Kandy'

WHERE D\_Id = 'DPT 004 ';

-- Update Statement 02

UPDATE Room

SET Room\_type ="ICU rooms"

WHERE Room\_id = 'R 0005' AND Room\_cost = '200';

-- Update Statement 03

UPDATE Patient\_guardian

SET

G\_name = 'Chathumina menaka',

Relationship = 'Mother',

Contact\_no = '077-2345321'

WHERE Out\_Pid = 'P053';

-- Update Statement 04

UPDATE Equipment

SET Quantity = 100

WHERE Equip\_name = 'Blood Bag';

-- Update Statement 05

UPDATE Bill

SET Treatment\_charges = Treatment\_charges + 1850

WHERE Medicine\_charges > 1700 ;

**Delete Statement**

-- Delete Statement 01

DELETE FROM Patient WHERE P\_Id = 'P051';

-- Delete Statement 02

DELETE FROM Bill;

-- Delete Statement 03

DELETE FROM Bill

WHERE (Medicine\_charges > 2300.00);

-- Delete Statement 04

DELETE FROM PATIENT

WHERE (Blood\_group = 'A+');

-- Delete Statement 05

DELETE TOP(3)

FROM Medicine

WHERE (Stock\_details > 4800);

-- Delete Statement 06

DELETE FROM Department

ORDER BY D\_name DESC LIMIT 2;

-- Delete Statement 07

DELETE FROM Bill

WHERE (Medicine\_Charges = (SELECT MIN(Medicine\_Charges) AS Expr1 FROM Bill AS bill\_1));

**Insert Statement**

-- Insert Statement 01

INSERT INTO PATIENT

VALUES

('P071','vishwa de silva','Male','Ratnapura','1977-11-01','O+','076-4664693','Cancer','DOC 003 ','R 0022 ','B022');

-- Insert Statement 02

insert into In\_patient

values

('I0011','P071','2022-10-29',Null);

-- Insert Statement 03

insert into Bill

values

('B011',690,1500,1500,'mobile transfer','2022-04-05','Paid');

-- Insert Statement 04

insert into Test

values

('TST016','Whole Blood',2500.00,'Lab006');

-- Insert Statement 05

insert into Patient\_treatments

values

('P071','Hormone therapy','DOC 010');