```sql
--reg form

CREATE TABLE reg_form (
first_name VARCHAR(20),
last_name VARCHAR(20),
state VARCHAR(20),
city VARCHAR(20),
dob DATE,
user_name VARCHAR(20),
password VARCHAR(20)
);



INSERT INTO reg_form (first_name, last_name, state, city, dob, user_name, password)
VALUES
('Aarav', 'vishnu', 'Kerala', 'Kochi', '2000-01-15', 'aarav_m', 'pass1'),
('Isha', 'Ganesh', 'Kerala', 'Thiruvananthapuram', '1998-05-22', 'isha_n','pass2'),
('Vikram', 'Alex', 'Kerala', 'Kozhikode', '1995-07-30', 'vikram p', 'pass3'),
('Sita', 'Kurup', 'Kerala', 'Kollam', '1997-11-05', 'sita_k', 'pass4'),
('Ravi', 'Raj', 'Kerala', 'Kochi', '1990-09-14', 'ravi_r', 'pass5'),
('Anaya', 'Shetty', 'Karnataka', 'Bangalore', '1999-02-18', 'anaya_s', 'pass6'),
('Rahul', 'Kumar', 'Karnataka', 'Mysore', '1996-04-20', 'rahul_k', 'pass7'),
('Priya', 'Rao', 'Karnataka', 'Hubli', '1992-06-25', 'priya_r', 'pass8'),
('Karthik', 'Natarajan', 'Tamil Nadu', 'Chennai', '1989-12-12', 'karthik_n', 'pass9'),
('Meera', 'Lijo', 'Tamil Nadu', 'Coimbatore', '1994-08-08', 'meera_i', 'pass10');

select * from reg_form;

update  reg_form set dob='1999-02-01' where first_name='sita';
```

---create employee table

```sql
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';

select emp_name ,salary from employee where
salary = (select max(salary) from employee
```

```sql
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);


--no of emplyees in a department


select distinct(department),count(*) as count_emp from employee group by department;


--joins

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;



select customer.name as cust_name,
products.name as product_name from customer
inner join products on customer.cust_id=products.pro_id;


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
```

```sql
--CREATED STORED PROCEDURE FOR CREATING USER

CREATE PROCEDURE CreateNewUser
@Userid INT,
@Username VARCHAR(25),
@Password VARCHAR(25),
@Email VARCHAR(25)
AS
BEGIN
INSERT INTO Users (User_id, Username, Password, Email)
VALUES (@Userid, @Username, @Password, @Email)
END;

EXEC CreateNewUser
@Userid=1,
@Username='sreedev',
@Password='123dss',
@Email='sreedev@gmail.com';

SELECT * FROM Users;

EXEC CreateNewUser
@Userid=101,
@Username = 'Adithya',
@Password = 'aDithya123',
@Email = 'adithya555@gmail.com';

--stored procedure for  deleting an user

CREATE PROCEDURE Del_User
@User_id int
AS
BEGIN
DELETE FROM Users WHERE User_id=@User_id;
END;

EXEC Del_User @User_id=1;

--dropping a procedure

DROP PROCEDURE IF EXISTS Del_User;


--create a procedure for update

CREATE PROCEDURE UPDATE_USER
@user_name varchar(20),
@user_id int

AS
BEGIN
	UPDATE Users SET Username=@user_name WHERE User_id=@user_id;
END;

EXEC UPDATE_USER @user_name='sreedev',@user_id=101;

select * from  Users;
```

```sql
--if else inside stored procedure

CREATE TABLE Students (
Student_id INT PRIMARY KEY,
first_name VARCHAR(25),
last_Name VARCHAR(25),
dob DATE,
admission_date DATE);

drop table STUDENTS;

---Create stored procedure for CRUD operations

CREATE PROCEDURE ManageStudent
@Action NVARCHAR(10),
@Studentid INT = NULL,
@FirstName NVARCHAR(50) = NULL,
@LastName NVARCHAR(50) = NULL,
@DOB DATE = NULL,
@AdmissionDate DATE = NULL
AS
BEGIN
IF @Action = 'CREATE'
BEGIN
INSERT INTO Students(Student_id,first_name, last_Name, dob, admission_date)
VALUES (@Studentid, @FirstName, @LastName, @DOB, @AdmissionDate);
END

ELSE IF @Action = 'READ'
BEGIN
SELECT * FROM Students WHERE Student_id = @Studentid;
END

ELSE IF @Action = 'UPDATE'
BEGIN
UPDATE Students SET
first_name=@FirstName,
last_Name=@LastName,
dob=@DOB,
admission_date=@AdmissionDate
WHERE Student_id=@Studentid;
END

ELSE IF  @Action = 'DELETE'
BEGIN
DELETE FROM Students WHERE Student_id=@Studentid;
END

END;


---executing stored procedures

EXEC ManageStudent
@Action = 'CREATE',
@Studentid = 101 ,
@FirstName = 'Sreedev',
```

```
@LastName = 'Dasappan',
@DOB ='2000-1-1',
@AdmissionDate ='2024-9-1';

EXEC ManageStudent
@Action='READ',
@Studentid=101;


EXEC ManageStudent
@Action = 'UPDATE',
@Studentid = 101 ,
@FirstName = 'Jane';

EXEC ManageStudent
@Action='DELETE',
@Studentid=101;
```