

use students;

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);
```

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 * from employee order by salary;

--selecting the second highest salary

select emp_name,salary from employee where salary=(select max(salary) from employee where salary <(select max(salary) from employee));

--using count

```
select count(emp_name)as count,department from employee group by department;
```

```
create table project (project_id int primary key,project_name varchar (50), emp_id int);
```

```
insert into project (project_id,project_name,emp_id) values
```

```
(3,'Shopping Website',110),
```

```
(4,'Accounting Software',107);
```

```
SELECT * FROM project;
```

--adding foreign key

```
ALTER TABLE project
```

```
ADD FOREIGN KEY (emp_id) REFERENCES employee(emp_id);
```

```
exec sp_help student;
```

```
USE students;
```

```
-- Create the 'reg_form' table
```

```
DROP TABLE IF EXISTS 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 = '1999-12-12' WHERE user_name = 'karthik_n';
```

```
DELETE FROM reg_form WHERE password = 'pass5';
```

```
SELECT first_name FROM reg_form WHERE state='kerala';
```

```
SELECT * FROM reg_form ORDER BY dob desc;
```

```
SELECT TOP 3 * FROM reg_form;
```

```
SELECT MIN(DOB) AS elder_one FROM reg_form;
```

```
SELECT MAX(DOB) AS younger_one FROM reg_form;
```

```
SELECT MAX(DOB) AS second_younger FROM reg_form where dob < (SELECT MAX(dob) FROM reg_form);
```

```
--USING DISTINCT FOR SHOWING THE UNIQUE VALUES ONLY
```

```
SELECT DISTINCT state FROM reg_form;
```

```
--USING AND
```

```
SELECT first_name
```

```
FROM reg_form
```

```
WHERE STATE = 'kerala' AND city = 'kollam';
```

```
--USING NOT
```

```
SELECT first_name
```

```
FROM reg_form
```

```
WHERE NOT (state='kerala');
```

```
--USING OR
```

```
SELECT first_name
```

```
FROM reg_form
```

```
WHERE state='tamil nadu' OR state = 'karnataka';
```

```
--ORDER BY
```

```
SELECT first_name
```

```
FROM reg_form
```

```
ORDER BY first_name;
```

```
--GROUP BY
```

```
SELECT
```

```
    COUNT(state) AS count,
```

```
    state
```

```
FROM reg_form
```

```
GROUP BY state;
```

```
--TOP (using instead of LIMIT)
```

```
SELECT TOP 4 *
```

```
FROM reg_form
```

```
ORDER BY dob ;
```

```
-- Create a clustered index on the first_name column
```

```
CREATE CLUSTERED INDEX FirstNameSort ON reg_form (first_name);
```

```
select * from reg_form;
```

```
CREATE NONCLUSTERED INDEX IX_UserName ON reg_form (user_name);
```

