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Distinct

```sql
select DISTINCT customer_state from customers;

select COUNT(DISTINCT customer_state) AS distinct_count from customers;

select COUNT(DISTINCT customer_city) AS distinct_count from customers;

select DISTINCT department, role from employees_new;

select count(DISTINCT department, role) from employees_new;

-- 5 candidates with highest experience select * from students order by years_of_exp desc limit 5;
```

candidates with 4th highest experience and 5th highest experience

```sql
select * from students order by years_of_exp desc limit 3,2;

select * from students order by years_of_exp desc limit 2,3;

-- 3 candidates with least experience
select *
from students
order by years_of_exp limit 3;

select distinct(location)
from students;

select distinct(source_of_joining) from students;

-- from which sources the 5 most experienced candidates got to know about me.
select source_of_joining
from students
order by years_of_exp desc limit 5;

-- the below query will not work (DISTINCT AND ORDER BY)

select DISTINCT source_of_joining
from students
order by years_of_exp
desc limit 5;
```

Scripts :

```sql
CREATE TABLE employees_new (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(255) NOT NULL,
    department VARCHAR(255) NOT NULL,
    role VARCHAR(255) NOT NULL
);

INSERT INTO employees_new (name, department, role) VALUES
('John Doe', 'Sales', 'Manager'),
('Jane Smith', 'Sales', 'Representative'),
('Alice Johnson', 'Marketing', 'Manager'),
('Chris Lee', 'IT', 'Developer'),
('Jack White', 'Sales', 'Representative'),
('Eve Davis', 'IT', 'Support'),
('Frank Brown', 'Marketing', 'Representative'),
('Grace Wilson', 'HR', 'Manager'),
('Henry Taylor', 'HR', 'Recruiter'),
('Chris Lee', 'IT', 'Developer');

create table students(
student_id INT AUTO_INCREMENT,
student_fname varchar(30) NOT NULL,
student_lname varchar(30) NOT NULL,
student_mname varchar(30),
student_email varchar(30) NOT NULL,
student_phone varchar(15) NOT NULL,
student_alternate_phone varchar(15),
```

```sql
    years_of_exp INT NOT NULL,

    student_company varchar(30),

    batch_date varchar(30) NOT NULL,

    source_of_joining varchar(30) NOT NULL,

    location varchar(30) NOT NULL,

    PRIMARY KEY(student_id),

    UNIQUE KEY(student_email)

);


INSERT INTO students(student_fname, student_lname, student_email, student_phone,
years_of_exp, student_company, batch_date, source_of_joining, location)

VALUES ('Amit', 'Sharma', 'amit.sharma@gmail.com', '9191919191', 6, 'Walmart', '05-02-2021',
'LinkedIn', 'Bangalore');


INSERT INTO students(student_fname, student_lname, student_email, student_phone,
years_of_exp, student_company, batch_date, source_of_joining, location)

VALUES ('Priya', 'Rao', 'priya.rao@gmail.com', '9292929292', 3, 'Flipkart', '05-02-2021', 'LinkedIn',
'Hyderabad');


INSERT INTO students(student_fname, student_lname, student_email, student_phone,
years_of_exp, student_company, batch_date, source_of_joining, location)

VALUES ('Rahul', 'Verma', 'rahul.verma@gmail.com', '9393939393', 12, 'Google', '19-02-2021',
'Google', 'Bangalore');


INSERT INTO students(student_fname, student_lname, student_email, student_phone,
years_of_exp, student_company, batch_date, source_of_joining, location)

VALUES ('Anjali', 'Singh', 'anjali.singh@gmail.com', '9494949494', 8, 'Walmart', '19-02-2021', 'Quora',
'Chennai');


INSERT INTO students(student_fname, student_lname, student_email, student_phone,
years_of_exp, student_company, batch_date, source_of_joining, location)

VALUES ('Vikram', 'Patel', 'vikram.patel@gmail.com', '9294919191', 15, 'Microsoft', '05-02-2021',
'Friend', 'Pune'),

('Asha', 'Menon', 'asha.menon@gmail.com', '9394919191', 18, 'TCS', '05-02-2021', 'YouTube',
'Pune'),
```

('Kiran', 'Nair', 'kiran.nair@gmail.com', '9293519191', 20, 'Wipro', '19-02-2021', 'YouTube', 'Pune'),

('Ravi', 'Iyer', 'ravi.iyer@gmail.com', '9291975191', 14, 'Wipro', '19-02-2021', 'Google', 'Chennai');