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Demo data for execute the query

```
CREATE TABLE employee (
   emp_id INT PRIMARY KEY,
   emp_name VARCHAR(50),
   job_name VARCHAR(50),
   manager_id INT,
   hire_date DATE,
   salary DECIMAL(10, 2),
   commission DECIMAL(10, 2),
   dep_id INT
);
INSERT INTO employee (emp_id, emp_name, job_name, manager_id, hire_date, salary,
commission, dep_id)
VALUES
   (68319, 'KAYLING', 'PRESIDENT', NULL, '1991-11-18', 6000.00, NULL, 1001),
   (66928, 'BLAZE', 'MANAGER', 68319, '1991-05-01', 2750.00, NULL, 3001),
   (67832, 'CLARE', 'MANAGER', 68319, '1991-06-09', 2550.00, NULL, 1001),
   (65646, 'JONAS', 'MANAGER', 68319, '1991-04-02', 2957.00, NULL, 2001),
   (67858, 'SCARLET', 'ANALYST', 65646, '1997-04-19', 3100.00, NULL, 2001),
   (69062, 'FRANK', 'ANALYST', 65646, '1991-12-03', 3100.00, NULL, 2001),
   (63679, 'SANDRINE', 'CLERK', 69062, '1990-12-18', 900.00, NULL, 2001),
   (64989, 'ADELYN', 'SALESMAN', 66928, '1991-02-20', 1700.00, 400.00, 3001),
   (65271, 'WADE', 'SALESMAN', 66928, '1991-02-22', 1350.00, 600.00, 3001),
   (66564, 'MADDEN', 'SALESMAN', 66928, '1991-09-28', 1350.00, 1500.00, 3001),
   (68454, 'TUCKER', 'SALESMAN', 66928, '1991-09-08', 1600.00, 0.00, 3001),
   (68736, 'ADNRES', 'CLERK', 67858, '1997-05-23', 1200.00, NULL, 2001),
   (69000, 'JULIUS', 'CLERK', 66928, '1991-12-03', 1050.00, NULL, 3001),
   (69324, 'MARKER', 'CLERK', 67832, '1992-01-23', 1400.00, NULL, 1001);
| emp_id | emp_name | job_name | manager_id | hire_date | salary | commission |
dep id
| 63679 | SANDRINE | CLERK | 69062 | 1990-12-18 | 900.00 | NULL |
2001
| 64989 | ADELYN | SALESMAN | 66928 | 1991-02-20 | 1700.00 | 400.00 |
3001
| 65271 | WADE | SALESMAN | 66928 | 1991-02-22 | 1350.00 | 600.00 |
3001
| 65646 | JONAS | MANAGER |
                                68319 | 1991-04-02 | 2957.00 |
                                                                 NULL
2001
| 66564 | MADDEN | SALESMAN | 66928 | 1991-09-28 | 1350.00 | 1500.00 |
3001
66928 BLAZE MANAGER
                                 68319 | 1991-05-01 | 2750.00 |
                                                                  NULL
3001
| 67832 | CLARE | MANAGER | 68319 | 1991-06-09 | 2550.00 | NULL |
1001
```

67858 2001	SCARLET	ANALYST		65646	1997-04-19	3100.00		NULL	
68319 1001	KAYLING	PRESIDENT		NULL	1991-11-18	6000.00		NULL	
68454 3001	TUCKER	SALESMAN		66928	1991-09-08	1600.00		0.00	
68736 2001	ADNRES	CLERK	I	67858	1997-05-23	1200.00		NULL	
69000 3001	JULIUS	CLERK	I	66928	1991-12-03	1050.00		NULL	
69062 2001	FRANK	ANALYST		65646	1991-12-03	3100.00		NULL	
69324 1001	MARKER	CLERK		67832	1992-01-23	1400.00		NULL	
++		+	-+	+		+	+		,

Ques. How to create a new MySQL user account in MySQL?

```
CREATE USER 'testuser' IDENTIFIED BY 'sample password';
```

• grant all **privileges** of the database for a newly created user

```
GRANT ALL PRIVILEGES ON * . * TO 'testuser'@'localhost';
```

• For changes to take effect immediately **flush** these privileges by typing in the command:

```
FLUSH PRIVILEGES;
```

• to withdraw all privileges for our non-root user we should use:

```
REVOKE ALL PRIVILEGES ON * . * FROM 'testuser'@'localhost';
```

- Also, replace the PERMISSION_TYPE value with the kind of access you want to grant to your new user
 account.
 - CREATE enable users to create a database or table
 - SELECT permit users to retrieve data
 - INSERT let users add new entries in tables
 - UPDATE allow users to modify existing entries in tables
 - DELETE enable users to erase table entries
 - DROP let users delete entire database tables

```
GRANT CREATE, SELECT ON * . * TO 'testuser'@'localhost';
```

• Display MySQL user account privileges

```
SHOW GRANTS FOR 'local_user'@'localhost';
```

• you can entirely **delete** an existing user account by using the following command:

```
DROP USER 'testuser'@'localhost';
```

• Change a MySQL user account password

```
ALTER USER 'testuser'@'localhost' IDENTIFIED BY 'new_password';
```

Ques. Check version of the sql?

```
select version()
```

Create Query

Create table

```
CREATE TABLE table_name (
  id int(11) NOT NULL,

column_name data_type(2),
......);
```

Create a table which is already exists?

```
CREATE TABLE IF NOT EXISTS table_name (
  column_name data_type(2),
  column_name data_type(2),
  ......
);
```

Creaet a table through another table/Duplicate table through another table.

```
CREATE TABLE IF NOT EXISTS new_table_name LIKE exsting_table_name;
```

Creaet a table through another table/Duplicate table through another table, with structure and data?

```
CREATE TABLE IF NOT EXISTS new_table_name AS SELECT * FROM exsting_table_name;
```

Create a table and check max_salary is not exceed the upper limit of 25000

```
CREATE TABLE IF NOT EXISTS jobs(

JOB_ID varchar(10) NOT NULL,

JOB_TITLE varchar(35) NOT NULL,

MIN_SALARY decimal(6,0),

MAX_SALARY decimal(6,0),

CHECK(MAX_SALARY<=25000)
);
```

Aggregate function

```
-- Sum() :- The SUM() function returns the total sum of a numeric column.

SELECT SUM(column_name) FROM table_name;

-- AVG():- The AVG() function returns the average value of a numeric column.

SELECT AVG(column_name) FROM table_name;

-- MAX() :- The MAX() function returns the largest value of the selected column.

SELECT MAX(column_name) FROM table_name;

-- Min():- The MIN() function returns the smallest value of the selected column.

SELECT MIN(column_name) FROM table_name;

-- count():- The COUNT() function returns the number of rows that matches a specified criterion.

SELECT COUNT(column_name) FROM table_name;
```

ROUND()

- The ROUND() function is used to round a numeric value to a specified number of decimal places.*
- syntex:- syntex:- ROUND(number, decimal_places)

```
SELECT ROUND(123.4567, 2); -- Returns 123.46

SELECT ROUND(123.4567, 0); -- Returns 123

SELECT ROUND(123.4567, -1); -- Returns 120 (rounds to the nearest 10)

-- example:-

SELECT ROUND(salary, 2) AS rounded_salary FROM employees;
```

BETWEEN()

• The BETWEEN operator is used to filter the result set within a certain range. The values can be numbers, text or dates.

```
SELECT column_name(s) FROM table_name
WHERE column_name BETWEEN value_1 AND value_2;
```

AND

- AND is an operator that combines two conditions. Both conditions must be true for the row to be included in the result set.
- The MySQL AND Condition (also called the AND Operator) is used to test two or more conditions in a SELECT, INSERT, UPDATE, or DELETE statement.
- AND condition allows you to test 2 or more conditions.

```
SELECT column_name(s)
FROM table_name
WHERE column_1 = value_1
   AND column_2 = value_2;

SELECT * FROM contacts
WHERE state = 'California'
AND contact_id > 3000;
```

OR

• OR is an operator that filters the result set to only include rows where either condition is true.

```
SELECT column_name
FROM table_name
WHERE column_name = value_1
OR column_name = value_2;
```

Case

• CASE statements are used to create different outputs (usually in the SELECT statement). It is SQL's way of handling if-then logic.

```
SELECT column_name,

CASE

WHEN condition THEN 'Result_1'

WHEN condition THEN 'Result_2'

ELSE 'Result_3'

END

FROM table_name;
```

Aliases

- AS is a keyword in SQL that allows you to rename a column or table using an alias.
- Aliases are used to give a table, or a column in a table, a temporary name.
- An alias is created with the AS keyword.

```
SELECT column_name AS alias_name FROM table_name;
```

IS NULL / IS NOT NULL

• IS NULL and IS NOT NULL are operators used with the WHERE clause to test for empty values.

```
SELECT column_name(s)
FROM table_name
WHERE column_name IS NULL;
```

GROUP BY

• GROUP BY is a clause in SQL that is only used with aggregate functions. It is used in collaboration with the SELECT statement to arrange identical data into groups.

```
SELECT column_name, COUNT(*)
FROM table_name
GROUP BY column_name;
```

HAVING

• HAVING was added to SQL because the WHERE keyword could not be used with aggregate functions.

```
SELECT column_name, COUNT(*)
FROM table_name
GROUP BY column_name
HAVING COUNT(*) > value;
```

LIMIT

• LIMIT is a clause that lets you specify the maximum number of rows the result set will have.

```
SELECT column_name(s)
FROM table_name
LIMIT number;
```

ORDER BY

• ORDER BY is a clause that indicates you want to sort the result set by a particular column either alphabetically or numerically.

```
SELECT column_name
FROM table_name
ORDER BY column_name ASC | DESC;
```

SELECT DISTINCT

• SELECT DISTINCT specifies that the statement is going to be a query that returns unique values in the specified column(s).

```
SELECT DISTINCT column_name
FROM table_name;
```

With

- WITH clause lets you store the result of a query in a temporary table using an alias. You can also define multiple temporary tables using a comma and with one instance of the WITH keyword.
- The WITH clause is also known as common table expression (CTE) and subquery factoring.

```
WITH temporary_name AS (
    SELECT *
    FROM table_name)
SELECT *
FROM temporary_name
WHERE column_name operator value;
```

WHERE

• WHERE is a clause that indicates you want to filter the result set to include only rows where the following condition is true.

```
SELECT column_name(s)
FROM table_name
WHERE column_name operator value;
```

UPDATE

• UPDATE statements allow you to edit rows in a table.

```
UPDATE table_name SET some_column = some_value
WHERE some_column = some_value;

Update customer set name="mohit" where id =1;
```

Ques. How to copy a table in another table?

```
CREATE TABLE EMP1 AS (SELECT * FROM EMP); //constraint will not copied.
```

Ques. How to copy structure of a table but not data?

```
CREATE TABLE STD AS (SELECT * FROM EMP WHERE EMPNO=-1);
```

DELETE TABLE?

• The DELETE statement is used to delete rows from a table. If you want to remove a **specific row** from a table you should use WHERE condition.

```
DELETE FROM table_name [WHERE condition];
```

• But if you do not specify the WHERE condition it will remove all the rows from the table.

```
DELETE FROM table_name;
```

Delete Duplicate Records?

```
CREATE TABLE employee (
    id INT,
    customer_name VARCHAR(255),
    email VARCHAR(255)
);
INSERT INTO employee (id, customer_name, email)
VALUES
    (1, 'John Doe', 'john.doe@example.com'),
    (2, 'Jane Doe', 'jane.doe@example.com'),
    (3, 'Muzamil Amin', 'Muzamilaminitoo@gmail.com'),
    (1, 'John Doe', 'john.doe@example.com'),
    (4, 'Alice Johnson', 'alice.johnson@example.com'),
    (2, 'Jane Doe', 'jane.doe@example.com');

mysql> DELETE FROM employee WHERE id IN ( SELECT id FROM employee GROUP BY id HAVING COUNT(*) > 1 )
```

Add foreign key?

```
ALTER TABLE `bookings` ADD CONSTRAINT `advance_bookings_user_id_foreign` FOREIGN
KEY (`user_id`) REFERENCES `users` (`id`) ON DELETE CASCADE ON UPDATE CASCADE
```

Highest Salary Department wise

```
Create table If Not Exists Employee (id int, name varchar(255), salary int,
departmentId int);
Create table If Not Exists Department (id int, name varchar(255));
Truncate table Employee;
insert into Employee (id, name, salary, departmentId) values ('1', 'Joe', '85000',
'1');
insert into Employee (id, name, salary, departmentId) values ('2', 'Henry',
'80000', '2');
insert into Employee (id, name, salary, departmentId) values ('3', 'Sam', '60000',
'2');
insert into Employee (id, name, salary, departmentId) values ('4', 'Max', '90000',
insert into Employee (id, name, salary, departmentId) values ('5', 'Janet',
'69000', '1');
insert into Employee (id, name, salary, departmentId) values ('6', 'Randy',
'85000', '1');
insert into Employee (id, name, salary, departmentId) values ('7', 'Will',
'70000', '1');
insert into Employee (id, name, salary, departmentId) values ('8', 'Mohit',
'90000', '1');
Truncate table Department;
insert into Department (id, name) values ('1', 'IT');
insert into Department (id, name) values ('2', 'Sales');
```

```
Employee table:
+---+
| id | name | salary | departmentId |
| 1 | Joe | 85000 | 1
| 2 | Henry | 80000 | 2
| 3 | Sam | 60000 | 2
4 | Max
        90000 | 1
   | Janet | 69000 | 1
| 5
6 | Randy | 85000 | 1
| 7 | Will | 70000 | 1
| 8 | Mohit | 90000 | 1
+---+-----
Department table:
+----+
| id | name |
+----+
| 1 | IT |
| 2 | Sales |
+----+
```

Ques. Find the Highest Salary of Each Department?

```
# for single table
SELECT dep id, max(salary) FROM `employee` GROUP BY dep id;
+----+
| dep_id | max(salary) |
+----+
| 1001 | 6000.00 |
| 2001 | 3100.00 |
| 2244 | 6000.00 |
| 3001 | 2750.00 |
+-----+
# for two table
select max(employee.salary) AS salery, department.name from employee JOIN
department WHERE employee.departmentId = department.id GROUP BY department.name;
+----+
| salery | name |
+----+
| 90000 | IT |
| 80000 | Sales |
+----+
```

Ques. Find the Highest Salary of Each Department with name?

```
# for one table
SELECT dep_id, emp_name, salary FROM employee WHERE (dep_id,salary) IN (SELECT
dep_id, MAX(salary) FROM employee GROUP BY dep_id);
+-----+
| dep_id | emp_name | salary |
+-----+
 2244 | Mohit | 6000.00 |
 3001 | BLAZE | 2750.00 |
 2001 | SCARLET | 3100.00 |
 1001 | KAYLING | 6000.00 |
| 2001 | FRANK | 3100.00 |
+-----+
# for two table
SELECT department.name AS dep_name, employee.name AS emp_name, employee.salary AS
salary
FROM employee JOIN department
ON employee.departmentId = department.id
JOIN(
SELECT departmentId, max(salary) AS max salary
from employee GROUP BY departmentId
) AS dept_max ON employee.departmentId = dept_max.departmentId AND employee.salary
= dept max.max salary
+-----+
| dep_name | emp_name | salary |
```

```
| Sales | Henry | 80000
         | Max | 90000 |
| IT
       | Mohit | 90000 |
| IT
* Using SubQuery
SELECT department.name AS dep_name, employee.name AS emp_name, employee.salary AS
FROM employee
JOIN department ON employee.departmentId = department.id
WHERE (employee.departmentId, employee.salary) IN (
   SELECT departmentId, MAX(salary)
   FROM employee
   GROUP BY departmentId
);
+-----+
| dep_name | emp_name | salary |
+-----
| Sales | Henry | 80000 |
| IT | Max
                 90000
      | Mohit | 90000
IT
```

Ques. How to find Nth highest salary from a table?

Using the LIMIT Clause

• Syntex:-

```
Select DISTINCT Salary from table_name order by Salary DESC limit n-1,1;
SELECT DISTINCT salary FROM employees ORDER BY salary DESC LIMIT 1 OFFSET N-1;
```

- The limit clause has two components, the **First component** is to skip a number of rows from the top and the **second component** is to display the number of rows we want.
- To find the 4th Highest salary query will be

```
Select DISTINCT emp_name, salary from Employee order by salary DESC limit 3,1;
(OR)
Select DISTINCT Salary from employees order by Salary DESC limit 1 OFFSET 3;

+-----+
| emp_name | salary |
+-----+
| JONAS | 2957.00 |
+-----+
```

using sub Query

```
# 3rd higest salery
SELECT MAX(salary) AS ThirdHighestSalary FROM Employee WHERE salary < (SELECT
MAX(salary) FROM Employee WHERE salary < (SELECT MAX(salary) FROM Employee));
+-----+
| MAX(salary) |
+-----+
| 2957.00 |
+-----+</pre>
```

Ques. Top 5 Salery?

• Using limit

```
SELECT salary FROM employee ORDER BY salary DESC LIMIT 4
+-----+
| emp_name | salary |
+-----+
| KAYLING | 6000.00 |
| FRANK | 3100.00 |
| SCARLET | 3100.00 |
| JONAS | 2957.00 |
| BLAZE | 2750.00 |
+-----+
```

```
SELECT SAL FROM(SELECT DISTINCT SAL FROM EMP WHERE SAL IS NOT NULL ORDER BY SAL DESC)WHERE ROWNUM <6; (in oracle)
```

Using sub Query

Ques. Top Salery?

```
select emp_name, salary from employee order by Salary DESC;
+-----+
| emp_name | salary |
+-----+
| Mohit | 6000.00 |
| KAYLING | 6000.00 |
| FRANK | 3100.00 |
| SCARLET | 3100.00 |
```

```
| JONAS | 2957.00 |
| BLAZE | 2750.00 |
| CLARE | 2550.00 |
| ADELYN | 1700.00 |
| TUCKER | 1600.00 |
| MARKER | 1400.00 |
| MADDEN | 1350.00 |
| WADE | 1350.00 |
| ADNRES | 1200.00 |
| JULIUS | 1050.00 |
| SANDRINE | 900.00 |
```

List of duplicate data

```
SELECT a.id, a.name, a.email
FROM sample_table a
INNER JOIN sample_table b ON a.name = b.name AND a.email = b.email
WHERE a.id != b.id;
```

```
select emp_name, salary from employee where salary = (select max(salary) from
employee);
+-----+
| emp_name | salary |
+----+
| Mohit | 6000.00 |
| KAYLING | 6000.00 |
+----+
```

How to Find Duplicate values in a Table?

```
# where, groupby, having
extra:- SELECT phone, count(phone) as total_phone FROM `users` WHERE role_id = 4
group by phone having count(phone) > 1;
```

```
+---+
| Id | Email |
+---+----+
| 1 | a@b.com |
| 2 | c@d.com |
| 3 | a@b.com |
+----+

select Email, count(Email) as num from Person group by Email;
+-----+
```

```
| Email | num |
+ ----- + --- +
| a@b.com | 2 |
| c@d.com | 1 |
+-----+

select Email, count(Email) as num from Person group by Email HAVING COUNT(Email) >
1;
+----+
| Email | num |
+ ----- + --- +
| a@b.com | 2 |
+---
```

How many employees under the manager

<pre>emp_id emp_name dep_id</pre>	ı	Job_name		manager_id h	nire_date	salary		commission	ı
	-+-		+-	+	+		-+-		+-
68319 KAYLING		PRESIDENT		:	1991-11-18	6000.00			
1001									
66928 BLAZE		MANAGER		68319 3	1991-05-01	2750.00			
3001									
67832 CLARE		MANAGER		68319 3	1991-06-09	2550.00			
1001									
65646 JONAS		MANAGER		68319 3	1991-04-02	2957.00			
2001									
67858 SCARLET		ANALYST		65646 3	1997-04-19	3100.00			
2001									
69062 FRANK	ı	ANALYST	ı	65646 3	1991-12-03	3100.00	ı		ı
2001 63679 SANDRINE		CLEDIA		60062 6	1000 12 10	000 00			
2001	ı	CLERK	ı	69062 .	1990-12-18	900.00	ı		ı
64989 ADELYN	ı	CALECMAN	ı	66028 1	1001-02-20	1700 00	ı	100 00	ı
3001	ı	SALLSMAN	ı	00928 .	1991-02-20	1700.00	1	400.00	ı
65271 WADE	ı	SALESMAN	ı	66928 ⁻	1991-02-22	1350.00	ı	600.00	ı
3001	'	SALLSINA	'	00320 .	1331 02 22	1330.00	'	000.00	'
66564 MADDEN	ı	SALESMAN	ı	66928 3	1991-09-28	1350.00	ı	1500.00	ı
3001									
68454 TUCKER	Ι	SALESMAN		66928 3	1991-09-08	1600.00		0.00	
3001									
68736 ADNRES		CLERK		67858 3	1997-05-23	1200.00			
2001									
69000 JULIUS		CLERK		66928 3	1991-12-03	1050.00			
3001									
69324 MARKER		CLERK		67832 3	1992-01-23	1400.00			

```
SELECT w.manager_id,
    count(*)
FROM employees w,
  employees m
WHERE w.manager_id = m.emp_id
GROUP BY w.manager_id
ORDER BY w.manager_id ASC;
Output:-
 manager_id | count
-----
    65646 | 2
     66928
             5
     67832
     67858
             1
     68319
             3
     69062 | 1
```

and count higest emp under the manager.

```
SELECT m.emp_name,
      count(*)
FROM employees w,
    employees m
WHERE w.manager_id = m.emp_id
GROUP BY m.emp_name
HAVING count(*) =
 (SELECT MAX (mycount)
  FROM
    (SELECT COUNT(*) mycount
     FROM employees
     GROUP BY manager_id) a);
Output:-
emp_name | count
-----
 BLAZE | 5
```

Replace a Column Values from 'male' to 'female' and 'female' to 'male'

```
CREATE TABLE EMPDATA

(
EMPNAME VARCHAR(25),
GENDER VARCHAR(6),
DEPT VARCHAR(20),
CONTACTNO BIGINT NOT NULL,
CITY VARCHAR(15)
```

```
);
INSERT INTO EMPDATA
VALUES ('VISHAL', 'MALE', 'SALES', 9193458625, 'GHAZIABAD'),
('DIVYA', 'FEMALE', 'MANAGER', 7352158944, 'BAREILLY'),
('REKHA', 'FEMALE', 'IT', 7830246946, 'KOLKATA'),
('RAHUL', 'MALE', 'MARKETING', 9635688441, 'MEERUT'),
('SANJAY', 'MALE', 'SALES', 9149335694, 'MORADABAD'),
('ROHAN', 'MALE', 'MANAGER', 7352158944, 'BENGALURU'),
('RAJSHREE', 'FEMALE', 'SALES', 9193458625, 'VODODARA'),
('AMAN', 'MALE', 'IT', 78359941265, 'RAMPUR'),
('RAKESH', 'MALE', 'MARKETING', 9645956441, 'BOKARO'),
('MOHINI', 'FEMALE', 'SALES', 9147844694, 'Delhi')
select * from empdata;
+-----
| EMPNAME | GENDER | DEPT | CONTACTNO | CITY
VISHAL | FEMALE | SALES | 9193458625 | GHAZIABAD |
RAHUL | FEMALE | MARKETING | 9635688441 | MEERUT
| SANJAY | FEMALE | SALES | 9149335694 | MORADABAD |
| ROHAN | FEMALE | MANAGER | 7352158944 | BENGALURU |
RAJSHREE | MALE | SALES | 9193458625 | VODODARA |
| RAKESH | FEMALE | MARKETING | 9645956441 | BOKARO
```

```
UPDATE empdata
SET GENDER = CASE
   WHEN GENDER='male' THEN 'female'
   WHEN GENDER='female' THEN 'male'
   END;
(OR)
UPDATE EMPDATA
SET gender = CASE
   gender WHEN 'male' THEN 'female'
        WHEN 'female' THEN 'male'
  ELSE gender
END;
+-----+----+-----+
| EMPNAME | GENDER | DEPT | CONTACTNO | CITY
| VISHAL
        | male | SALES | 9193458625 | GHAZIABAD |
        | female | MANAGER | 7352158944 | BAREILLY |
DIVYA
REKHA
        RAHUL
        male | MARKETING | 9635688441 | MEERUT
```

	SANJAY	male	SALES		9149335694		MORADABAD	
	ROHAN	male	MANAGER		7352158944		BENGALURU	
	RAJSHREE	female	SALES		9193458625		VODODARA	
	AMAN	male	IT		78359941265		RAMPUR	
	RAKESH	male	MARKETING		9645956441		BOKARO	
	MOHINI	female	SALES		9147844694		Delhi	
+		+	+	+-		+-		+

Find Names of students whose age is greater than 21?

```
Select field_name1, field_name2 from table_name where student_age < 21;
```