

SELECT Statement

```
SELECT Column_Name_1, Column_Name_2, ....., Column_Name_N FROM Table_Name;
```

```
SELECT * FROM table_name;
```

Example 1:

```
1. CREATE TABLE Student_Records  
2. (  
3. Student_Id Int PRIMARY KEY,  
4. First_Name VARCHAR (20),  
5. Address VARCHAR (20),  
6. Age Int NOT NULL,  
7. Percentage Int NOT NULL,  
8. Grade VARCHAR (10)  
9. );
```

```
INSERT INTO Student VALUES (201, Akash, Delhi, 18, 89, A2),
```

```
(202, Bhavesh, Kanpur, 19, 93, A1),
```

```
(203, Yash, Delhi, 20, 89, A2),
```

```
(204, Bhavna, Delhi, 19, 78, B1),
```

```
(05, Yatin, Lucknow, 20, 75, B1),
```

```
(206, Ishika, Ghaziabad, 19, 51, C1),
```

```
(207, Vivek, Goa, 20, 62, B2);
```

SELECT * **FROM** Student_Records;

Student_ID	First_Name	Address	Age	Percentage	Grade
201	Akash	Delhi	18	89	A2
202	Bhavesb	Kanpur	19	93	A1
203	Yash	Delhi	20	89	A2
204	Bhavna	Delhi	19	78	B1
205	Yatin	Lucknow	20	75	B1
206	Ishika	Ghaziabad	19	91	C1
207	Vivek	Goa	20	80	B2

SELECT Student_Id, Age, Percentage, Grade **FROM** Employee;

Student_ID	Age	Percentage	Grade
201	18	89	A2
202	19	93	A1
203	20	89	A2
204	19	78	B1
205	20	75	B1
206	19	91	C1
207	20	80	B2

SQL SELECT DISTINCT

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

Student_Name	Gender	Mobile_Number	HOME_TOWN
Rahul Ojha	Male	7503896532	Lucknow
Disha Rai	Female	9270568893	Varanasi
Sonoo Jaiswal	Male	9990449935	Lucknow

```
SELECT DISTINCT home_town  
FROM students
```

HOME_TOWN
Lucknow
Varanasi

SQL SELECT TOP

1. SELECT TOP number | percent column_Name1, column_Name2,, column_NameN
FROM table_name WHERE [Condition] ;

Car Name	Car Color	Car Cost
Hyundai Creta	White	10,85,000
Hyundai Venue	White	9,50,000
Hyundai i20	Red	9,00,000
Kia Sonet	White	10,00,000
Kia Seltos	Black	8,00,000
Swift Dezire	Red	7,95,000

```
SELECT TOP 3 Car_Name, Car_Color FROM Cars;
```

Car_Name	Car_Color
Hyundai Creta	White
Hyundai Venue	White
Hyundai i20	Red

Stu_ID	Stu_Name	Stu_Marks
1001	Abhay	85
1002	Ankit	75
1003	Bheem	60
1004	Ram	79
1005	Sumit	80

SELECT TOP 4 * FROM Student;

Stu_ID	Stu_Name	Stu_Marks
1001	Abhay	85
1002	Ankit	75
1003	Bheem	60
1004	Ram	79

Emp_Id	Emp_Name	Emp_Salary	Emp_City
201	Abhay	25000	Goa
202	Ankit	45000	Delhi
203	Bheem	30000	Goa
204	Ram	29000	Goa
205	Sumit	40000	Delhi

SELECT TOP 4 * FROM Employee WHERE Emp_City = Goa ;

Emp_Id	Emp_Name	Emp_Salary	Emp_City
201	Abhay	25000	Goa
203	Bheem	30000	Goa
204	Ram	29000	Goa

SELECT LIMIT Clause

SELECT column_Name1,column_Name2,, column_NameN FROM table_name LIMIT value;

Car Name	Car Color	Car Cost
Hyundai Creta	White	10,85,000
Hyundai Venue	White	9,50,000
Hyundai i20	Red	9,00,000
Kia Sonet	White	10,00,000
Kia Seltos	Black	8,00,000
Swift Dezire	Red	7,95,000

SELECT * FROM Cars LIMIT 3;

Car Name	Car Color	Car Cost
Hyundai Creta	White	10,85,000
Hyundai Venue	White	9,50,000
Hyundai i20	Red	9,00,000

SELECT FIRST

SELECT FIRST(column_name) FROM table_name;

CUSTOMER_NAME	AGE	ADDRESS	EXPENDITURE
KAMAL SHARMA	26	GHAZIABAD	6000
ROBERT PETT	23	NEWYORK	26000
SHIKHA SRIVASTAV	22	DELHI	9000

```
SELECT FIRST (CUSTOMER_NAME) AS first_customer FROM CUSTOMERS;
```

Output

KAMAL SHARMA

SELECT LAST() Function

```
SELECT LAST (Field_Name) FROM Table_Name ;
```

Student_ID	Student_Name	Student_Course	Student_Age	Student_Marks
101	Anuj	B.tech	20	88
102	Raman	MCA	24	98
104	Shyam	BBA	19	92
107	Vikash	B.tech	20	78
111	Monu	MBA	21	65
114	Jones	B.tech	18	93
121	Parul	BCA	20	97
123	Divya	B.tech	21	89
128	Hemant	MBA	23	90
130	Nidhi	BBA	20	88
132	Priya	MBA	22	99
138	Mohit	MCA	21	92

```
SELECT LAST (Student_Name) AS Last_Student FROM Student_Details;
```

Output:

Last_Student
Mohit

WHERE Clause

```
SELECT column1,column2 FROM table_name WHERE column_name operator value;
```

```
CREATE TABLE Emp1(  
    EmpID INT PRIMARY KEY,  
    Name VARCHAR(50),  
    Country VARCHAR(50),  
    Age int(2),  
    mob int(10)  
);  
INSERT INTO Emp1 (EmpID, Name, Country, Age, mob)  
VALUES (1, 'Shubham', 'India', 23, 738479734),  
       (2, 'Aman ', 'Australia', 21, 436789555),
```

```
(3, 'Naveen', 'Sri lanka', '24', '34873847'),  
(4, 'Aditya', 'Austria', '21', '328440934'),  
(5, 'Nishant', 'Spain', '22', '73248679');
```

Example 1: Where Clause with Logical Operators

To fetch records of Employee with age equal to 24.

Query:

```
SELECT * FROM Emp1 WHERE Age=24;
```

Output:

EmpID	Name	Country	Age	mob
3	Naveen	Sri lanka	24	34873847

To fetch the EmpID, Name and Country of Employees with Age greater than 21.

Query:

```
SELECT EmpID, Name, Country FROM Emp1 WHERE Age > 21;
```

Output:

EmpID	Name	Country
1	Shubham	India
3	Naveen	Sri lanka
5	Nishant	Spain

Example 2: Where Clause with BETWEEN Operator

Syntax:

```
SELECT column1, column2 FROM table_name  
WHERE column_name BETWEEN value1 AND value2;
```

To fetch records of Employees where Age is between 22 and 24 (inclusive).

Query:

```
SELECT * FROM Emp1 WHERE Age BETWEEN 22 AND 24;
```

Output:

EmpID	Name	Country	Age	mob
1	Shubham	India	23	738479734
3	Naveen	Sri lanka	24	34873847
5	Nishant	Spain	22	73248679

Example 3: Where Clause with IN Operator

Syntax:

```
SELECT column1, column2 FROM table_name WHERE column_name IN (value1, value2,...);
```

To fetch the Names of Employees where Age is 21 or 23.

Query:

```
SELECT Name FROM Emp1 WHERE Age IN (21,23);
```

Output:

Name
Shubham
Aman
Aditya

List of Operators that Can be Used with WHERE Clause

Operator	Description
>	Greater Than
>=	Greater than or Equal to
<	Less Than
<=	Less than or Equal to
=	Equal to
<>	Not Equal to
BETWEEN	In an inclusive Range
LIKE	Search for a pattern
IN	To specify multiple possible values for a column

SQL ORDER BY

Syntax:

The syntax to use ORDER BY clause in SQL is:

*SELECT * FROM table_name ORDER BY column_name ASC / DESC*

roll_no	age	name	address	phone
1	18	Shubham Thakur	123 Main St, Mumbai	9876543210
2	18	Mohit Thakur	321 Main St, Mumbai	9876543201
3	19	Abhishek	567 New Way, Mumbai	9876543219
4	19	Aman Chopra	456 Park Ave, Delhi	9876543211
5	20	Naveen Tulasi	789 Broadway, Ahmedabad	9876543212
6	21	Aditya arpan	246 5th Ave, Kolkata	9876543213
7	22	Nishant Jain	369 3rd St, Bengaluru	9876543214

Query:

SELECT * FROM students ORDER BY ROLL_NO DESC;

Output:

roll_no	age	name	address	phone
7	22	Nishant Jain	369 3rd St, Bengaluru	9876543214
6	21	Aditya arpan	246 5th Ave, Kolkata	9876543213
5	20	Naveen Tulasi	789 Broadway, Ahmedabad	9876543212
4	19	Aman Chopra	456 Park Ave, Delhi	9876543211
3	19	Abhishek	567 New Way, Mumbai	9876543219
2	18	Mohit Thakur	321 Main St, Mumbai	9876543201
1	18	Shubham Thakur	123 Main St, Mumbai	9876543210

Query:

SELECT * FROM students ORDER BY age DESC , name ASC;

Output:

roll_no	age	name	address	phone
7	22	Nishant Jain	369 3rd St, Bengaluru	9876543214
6	21	Aditya arpan	246 5th Ave, Kolkata	9876543213
5	20	Naveen Tulasi	789 Broadway, Ahmedabad	9876543212
3	19	Abhishek	567 New Way, Mumbai	9876543219
4	19	Aman Chopra	456 Park Ave, Delhi	9876543211
2	18	Mohit Thakur	321 Main St, Mumbai	9876543201
1	18	Shubham Thakur	123 Main St, Mumbai	9876543210