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faster operation.

SELECT QUERY: SELECT Column 1, Column 2 FROM table-name;

Syntax.

Query: SELECT Customer Name, CustID
FROM Customer;

① SELECT All columns:

Query: SELECT * FROM Customer;

② SELECT STATEMENT with WHERE CLAUSE:

SELECT CUSTOMER-NAME
FROM Customer
WHERE Age = '21';

Age	CustID	Customer Name
21	1	Harsh
21	2	Adarsh
21	3	Adarsh

⑧ SELECT with GROUP BY CLAUSE

Query: SELECT Customer_id, COUNT(*) AS Order_Count
FROM Orders

GROUP BY Customer_id;

- Used to Organize data into groups based on shared values in one (or) more columns
- Used to arrange identical data into groups based on specified columns.
- if a particular column has same values in multiple rows, the GROUP BY clause will group these rows together.

→ OFTEN used with AGGREGATE FUNCTIONS LIKE SUM,

COUNT, AVG, MIN and MAX.

→ cannot use SUM(), COUNT(), etc.

Example:

Query: SELECT name, SUM(sal) FROM emp

GROUP BY name;

Output:

name	SUM(sal)
Aarav	125000.75
Adih	60000.5
Anjali	45000.25
Chetan	80000

Example 2: Group By Multiple columns

QUERY: SELECT SUBJECT, YEAR, COUNT(*)
FROM STUDENT

GROUP BY SUBJECT, YEAR;

Op:

Subject..	year	COUNT(*)
English	2	2
AI	1	2
Science	3	2

⑧ HAVING CLAUSE:

→ While the WHERE clause is used to place conditions on the column, the Having clause places condition on the GROUPS

Example: `SELECT Name, SUM(sal) FROM Emp
GROUP BY: name
HAVING SUM(sal) > 50000;`

output:

Name	SUM(sal)
Aarav	125000.75
Aditi	60000.5
Chetan	80000

⑨ FROM clause: FROM which table in the Database do we have to select data.

Query 1: `SELECTING DATA FROM Single Table:`

Ex: `SELECT name, age FROM Students;`

Query 2: `SELECTING DATA FROM Multiple Tables`

Ex: `SELECT Students.name, Courses.course-name
FROM STUDENTS`

`INNER JOIN enrollments ON Students.student-id =
enrollments.student-id;`

⑩ Subqueries: A Query nested within a Query

Query: `SELECT name
FROM (SELECT name, age FROM Students WHERE
age > 18) AS adult - Students;`

SQL | WHERE Clause:

① `SELECT column1, column2 FROM table-name WHERE
column-name operator value;`

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

Output:

empID	Name	country	Age	Mob
3	Naveen	Srilanka	24	8487

Example 2: WHERE clause with BETWEEN Operator

Syntax:

SELECT column1, column2 FROM table-name
WHERE column-name BETWEEN value 1 and value 2

Query: SELECT * FROM Emp1 WHERE Age BETWEEN 22 and 24;

Example 3: WHERE clause with LIKE Operator

Syntax: SELECT column1, column2 FROM
table-name WHERE column-name
LIKE pattern;

Query: SELECT * FROM Emp1 WHERE Name LIKE 'S%'

Output:

EMPID	Name	Country	Age	Mob
1	Shubham	India	23	9361876

Query: SELECT * FROM Emp1 WHERE Name LIKE 'A%'

Output:

EMPID	Name	Country	Age	Mob
1	Shubham	India	23	7394876
2	Aman	Australia	21	732048

Example 4: WHERE clause with IN Operator

Syntax: SELECT column1, column2 FROM table-name
WHERE column-name IN (values 1, values 2);

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

Output:

Name
Shubham
Aman
Aditya