

SQL BASICS

SELECT

1. **SELECT * FROM** Customers;
2. **SELECT** CustomerName **FROM** Customers;
3. **SELECT** CustomerName, Address, City **FROM** Customers;
4. **SELECT * FROM** Customers
WHERE Country = "United State";

UPDATE

1. **UPDATE** Customers
SET City = "Sacramento"
Where CustomerID = 1
2. **UPDATE** Customers
SET CustomerName = "Inder",
City = "Sacramento",
Country = "United State"
Where CustomerID = 1

INSERT

1. **INSERT INTO** Shippers(ShpperID, ShipperName, Phone)
Values (4, "Inder", "619619");
2. **INSERT INTO** Shippers(ShipperName, Phone)
Values ("Jones","5656745");
3. **INSERT INTO** Shippers(ShipperName)
Values("James");

DISTINCT, IN, NOT IN

1. **SELECT DISTINCT** (Country) **FROM** Customers ;

DISTINCT will show only unique Country name means if US country name many time it show only one time.

2. **SELECT COUNT(DISTINCT (Country)) FROM Customers ;**
 - Count (**DISTINCT**) will count only Unique country.
3. **SELECT * FROM** Customers
WHERE Country **IN** ("United State", "UK");
 - It will show only customers from United State and UK
4. **SELECT * FROM** Customers
WHERE Country **NOT IN** ("United State", "UK");

- It will show all other county and skipped United State An UK

BETWEEN, SUM, AVG, MIN, MAX

1. **SELECT** * **FROM** Products
WHERE PRICE **BETWEEN** 10 **AND** 20 ;
2. **SELECT** **AVG**(Price)
FROM Products ;
3. **SELECT** **MAX**(Price)
FROM Products;
4. **SELECT** **MIN**(Price)
FROM Products ;
5. **SELECT** **SUM**(Price)
6. **FROM** Products ;

LIKE

1. **SELECT** * **FROM** Customers
WHERE CustomerName **LIKE** "Ind%"
 - If don't know the customer Full name but know only first few character
2. **SELECT** * **FROM** Customers
WHERE CustomerName **LIKE** "%er" ;
 - If don't know the customer Full name but know only last few character
3. **SELECT** * **FROM** Customers
WHERE CustomerName **LIKE** "%de%" ;
 - If don't know the customer Full name but know only few character inside his name

ORDER BY

1. **SELECT** * **FROM** Customers **ORDER BY** PostalCode ;
2. **SELECT** * **FROM** Products
ORDER BY Price **ASC** ;
3. **SELECT** * **FROM** Products
ORDER BY Price **DESC** ;
4. **SELECT** * **FROM** Products
ORDER BY Price, CategoryID;
5. **SELECT** * **FROM** Products
ORDER BY Price **DESC**, CategoryID **DESC**;
6. **SELECT** * **FROM** Products
7. **ORDER BY** Price **ASC**, CategoryID **DESC**;

GROUP BY

If have customer from different country, we can show GROUP BY Country Name

1. **SELECT COUNT** (CustomerID), Country
FROM Customers
GROUP BY Country
2. **SELECT COUNT**(CustomerID), Country
FROM Customers
GROUP BY Country
ORDER BY COUNT(CustomerID);
3. **SELECT COUNT**(CustomerID), Country
FROM Customers
GROUP BY Country
ORDER BY COUNT(CustomerID) **DESC**;

CREATE ALTER DELETE

CREATE

Creating Table

1. **CREATE TABLE** Testers(
 ID int,
 Name int,
 Grade VARCHAR,
 Address VARCHAR);

INSERT

Inserting data in table

1. **INSERT INTO** Testers (ID, Name, Grade, Address)
 Values (1, "Inder", "A", "619 Sacramento");
2. **INSERT INTO** Testers (ID, Name, Grade, Address)
 Values (2, "Paul", "A", "630 New York");
3. **INSERT INTO** Testers (ID, Name, Grade, Address)
 Values (1, "James", "A", "319 Seattle");

ALTER

Adding column to table

1. **ALTER TABLE** Testers
ADD Email VARCHAR ;

UPDATE

Updating value in table

1. **UPDATE** Testers
SET Email ="Inder@gmail.com"
WHERE Name = "Inder";

DROP

Deleting column in table

1. **ALTER TABLE** Testers
DROP COLUMN Address ;

INNER JOIN

1. **SELECT** Customers.CustomerName, Orders.OrderID
FROM Customers **INNER JOIN** Orders
ON Customers.CustomerID = Orders.CustomerID;
2. **SELECT** Customers.CustomerName, Orders.OrderID
FROM Customers **INNER JOIN** Orders
ON Customers.CustomerID = Orders.CustomerID
ORDER BY CustomerName;