All Online Learning

DML Commands and SQL:

- SELECT * FROM *table_name*;/ /display all rows and column

  Ex: SELECT * FROM Customers;

- SELECT *column1*, *column2, ...*

  FROM *table_name*;

  Ex: SELECT CustomerName, City FROM Customers;

- SELECT DISTINCT *column1*, *column2, ...*

  FROM *table_name*;

  Ex: SELECT DISTINCT Country FROM Customers;

  Ex: SELECT COUNT(DISTINCT Country) FROM Customers;

  Ex: SELECT Count(*) AS DistinctCountries

  FROM (SELECT DISTINCT Country FROM Customers);

- SELECT *column1*, *column2, ...*

  FROM *table_name*

  WHERE *condition*;

  Ex:

  SELECT * FROM Customers

  WHERE Country='Mexico';

- SELECT *column1*, *column2, ...*

  FROM *table_name*

  ORDER BY *column1, column2, ...* ASC|DESC;

Ex:

SELECT * FROM Customers

ORDER BY Country;

SELECT * FROM Customers

ORDER BY Country DESC;

SELECT * FROM Customers

ORDER BY Country, CustomerName;

SELECT * FROM Customers

ORDER BY Country ASC, CustomerName DESC;

- INSERT INTO *table_name* (*column1*, *column2*, *column3*, ...)

  VALUES (*value1*, *value2*, *value3*, ...);

  INSERT INTO *table_name*

  VALUES (*value1*, *value2*, *value3*, ...);

  Ex:

  INSERT INTO Customers (CustomerName, ContactName, Address, City, PostalCode, Country)

  VALUES ('Cardinal', 'Tom B. Erichsen', 'Skagen 21', 'Stavanger', '4006', 'Norway');

INSERT INTO `sales`(`OrderID`, `OrderDate`, `OrderPrice`, `OrderQuantity`, `CustomerName`) VALUES ('3','2005/7/13','500','5','Baldwin'),('4','2005/7/15','420','2','Smith');

- SELECT *column1, column2, ...*

  FROM *table_name*

  WHERE *columnN* LIKE *pattern*;

  Ex:

  SELECT * FROM Customers

  WHERE CustomerName LIKE 'a%';

  SELECT * FROM Customers

  WHERE CustomerName LIKE '%a';

- SELECT *column_name(s)*

  FROM *table_name*

  WHERE *column_name* IN (*SELECT STATEMENT*);

  Ex:

  SELECT * FROM Customers

  WHERE Country IN (SELECT Country FROM Suppliers);

  SELECT * FROM Customers

  WHERE Country IN ('Germany', 'France', 'UK');

```
SELECT * FROM Customers
WHERE Country NOT IN ('Germany', 'France', 'UK');
```

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```
SELECT column_name(s)
FROM table_name
WHERE condition
GROUP BY column_name(s)
ORDER BY column_name(s);
```
Ex:
```
SELECT COUNT(CustomerID), Country
FROM Customers
GROUP BY Country;

SELECT COUNT(CustomerID), Country
FROM Customers
GROUP BY Country
ORDER BY COUNT(CustomerID) DESC;
```

-
```
SELECT column_name(s)
FROM table1
INNER JOIN table2
ON table1.column_name = table2.column_name;
```
Ex:
```
SELECT Orders.OrderID, Customers.CustomerName
FROM Orders
INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID;
```