**For these notes, I have referenced w3schools.com,** [**http://www.w3schools.com/sql**](http://www.w3schools.com/sql)

**SELECT** statement is used to select columns from Table.

* SELECT firstName, lastName

FROM Name

This will select column fristName and lastName from Name table.

* SELECT \* FROM Name table. This will select all cols from Name table.

**SELECT DISTINCT-** a col may contain duplicate values, distinct lists only unique values, that is only once.

* SELECT DISTINCT colName, colName

FROM tableName

**WHERE-** is like the if else , switch statement where those records are selected which are matched in the col.

* SELECT \* FROM Names

WHERE City= ‘Fresno’

This will select all records with all cols where city is fresno

**AND** operator- to select a record which satisfies both the conditions .

* SELECT \* FROM Names

WHERE Age>20 AND City= ‘Fresno’

**OR** operator- To select a record which satisfies either of the condition

* SELECT \* FROM Names

WHERE Age>20 OR city =’Fresno’

**ORDER BY**- is used to sort the result in Asc or Desc order based upon the col chosen.

* SELECT \* FROM Names

ORDER BY Age

This will sort the records in ascending order based on ages or customers

**ORDER BY DESC**- order the records in the des coder in the resulting table

* SELECT \* FROM Names

ORDER BY Age DESC

This will order the records based on age in descending order

**INSERT INTO**- is used to insert new values/ records into table

* INSERT INTO Names (firstName, lastName, age, city)

VALUES (“jim”, “gurm”, 26, “fresno”).

This will create a new record in the table

**UPDATE**- is used to update an existing record

* UPDATE TableName

SET colName=Value

WHERE ColName=Value

* UPDATE Names

SET Age=25, firstName=”jag”

WHERE firstName=”jim”

This will update the age and first name of jim.

**DELETE**- is used to delete a record/row from the table

* DELETE FROM TableName

WHERE ColName=Value

* DELETE FROM Name

WHERE firstName=”jim”

This will delete jim’s record from the table Name

**DELETE All** – to delete all records from table. But the table will not be deleted. The cols will remain intact.

* DELETE FROM TableName
* DELETE \* TableName

**LIKE**- is used to search for pattern, specific

* SELECT \*

FROM NAME

WHERE City LIKE ‘s%’

This will search for all cities that start with s.

* SELECT \*

FROM Name

WHERE City LIKE ‘%s’

This will search for all cities that end with s.

**IN**- is used to specify multiple values while using WHERE

* SELECT \* FROM Name

WHERE City IN (‘fresno’, ‘visalia’);

BETWEEN- to select values between a pair of values

* SELECT \*

FROM Name

WHERE Age BETWEEN 20 AND 30;