***SQL –Hand Notes –with Queries***

# Select statements

## Select rows and columns from a table

* Select \* from table\_name 🡺selects all colums
  + Ex: Select \* from CustomerTable
* Select column1,column2…. From table\_name 🡺
  + Ex: Select CustomerId,CustomerName from CustomerTable

## Using Where Condtion

* Select \* from table\_name **where** condition
  + Ex: Select \* from CustomerTable where CustomerId=1
  + Ex: Select \* from CustomerTable where CustomerName=’ABCD’

## Using Where , AND , OR operators

* Select \* from table\_name where condition1 **and/or** condition2
  + Ex: Select \* from CustomerTable where CustomerId=1 and CustomerName=’ABCD’
  + Ex: Select \* from CustomerTable where CustomerId=1 or CustomerName=’ABCD’

## Using Ascending and Descending order

* Select \* from table\_name **Order by** column **asc**
  + Ex: Select \* from CustomerTable Order by asc
* Select \* from table\_name **Order by** column **Desc**
  + Ex: Select \* from CustomerTable Order by 1 desc
  + Ex: Select \* from CustomerTable Order by CustomerId desc
  + Ex: Select \* from CustomerTable Order by CustomerId desc

## Distinct keyword

Removes duplicates

* Select distinct \* from Customer

## Wild Cards

* Name starts with letter s
  + Select \* from Customer where customerName **like ‘S%’**
    - % 🡪denotes any no.of characters after S
* Names which does not starts with letter s
  + Select \* from Customer where customerName **like ‘[^S]%’**
    - % 🡪denotes any no.of characters after S
* Between letters
  + Select \* from Customer where customerName **like ‘s\_m’**
    - \_ 🡪denotes any one between between s and m

## Math operators

* Select customerId + 1 as Increment

,customerId – 1 as Decrement

,customerId > 1 as greater

From Customer

## Case statement

* Syntax:
  + Case

When condition

Then statement

When condition

Then statement

Else statement

End

* + Ex: select custId,

customerName

(

Case

When custId > 0 and custId <11

Then ‘True’

When condition

Then ‘False’

Else ‘Not defined’

End

) as Level