



Aggregate Functions

In this session, you will learn:

- What is an Aggregate Functions?
- List of Aggregate Functions with example queries



- An aggregate function performs a calculation on a set of values and returns a single value.
 - ✓ Count()
 - ✓ Sum()
 - ✓ Avg()
 - ✓ Max()
 - ✓ Min()

Aggregate Function – Count()

- returns the number of rows present in the table either based on some condition or without condition.

Example

```
SELECT count(*) AS Customer_Count  
from Customer WHERE City IN ('Chennai','CBE');
```

Customer

Customer_Id	FirstName	Street	City	Zip_Code	Phone
100	ABC	Central	Chennai	641088	9852754812
101	XYZ	Velacherry	Chennai	641088	5872526262
103	FEG	Lakeview	Ooty	465424	4541565996
102	PQR	PNP	CBE	641323	8893992919
106	MNO	Electronic	Bangalore	666743	8173578292

Customer

Customer_Count
3

Aggregate Function – Count()

Example

```
SELECT count(DISTINCT City) AS City_Count  
from Customer
```

Customer

Customer_Id	FirstName	Street	City	Zip_Code	Phone
100	ABC	Central	Chennai	641088	9852754812
101	XYZ	Velacherry	Chennai	641088	5872526262
103	FEG	Lakeview	Ooty	465424	4541565996
102	PQR	PNP	CBE	641323	8893992919
106	MNO	Electronic	Bangalore	666743	8173578292

Customer


City_Count
4

Aggregate Function – Sum()

- returns total sum of a selected columns numeric values.

Example

```
SELECT Sum(Price) AS Total_Price  
from Product
```



Product

Product_Id	Price	Pdt_Type
300	8000	Electronics
301	1500	Books
302	5000	Men Apparel



Product


Total_Price
14500

Aggregate Function – Avg()

- Calculates the average value of a column of numeric type.

Example

```
SELECT Avg(Price) AS Average_Price  
from Product
```



Product

Product_Id	Price	Pdt_Type
300	8000	Electronics
301	1500	Books
302	5000	Men Apparel

Product




Average_Price
4833.3333

Aggregate Function – Min()

- returns minimum value from a selected column of the table

Example


```
SELECT Min(Price) AS Minimum_Price  
from Product
```



Product

Product_Id	Price	Pdt_Type
300	8000	Electronics
301	1500	Books
302	5000	Men Apparel

Product



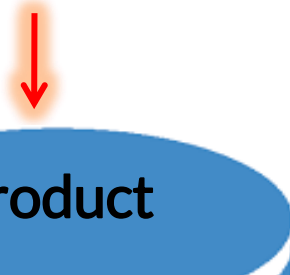
Minimum_Price
1500

Aggregate Function – Max()

- returns maximum value from a selected column of the table

Example


```
SELECT Max(Price) AS Maximum_Price  
from Product
```



Product

Product_Id	Price	Pdt_Type
300	8000	Electronics
301	1500	Books
302	5000	Men Apparel

Product



Maximum_Price
8000

THANKS

