



CHAPTER 3: AGGREGATE FUNCTIONS

2023

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AGGREGATE FUNCTIONS

An aggregate function performs a calculation on a set of values and returns a single value.

SUM

```
SELECT SUM(column_name)  
FROM table_name  
WHERE condition;
```

```
SELECT SUM(Quantity)  
FROM OrderDetails;
```

MIN

```
SELECT MIN(column_name)  
FROM table_name  
WHERE condition;
```

```
SELECT MIN(Price) AS SmallestPrice  
FROM Products;
```

MAX

```
SELECT MAX(column_name)  
FROM table_name  
WHERE condition;
```

```
SELECT MAX(Price) AS LargestPrice  
FROM Products;
```

COUNT

```
SELECT COUNT(column_name)  
FROM table_name  
WHERE condition;
```

```
SELECT COUNT(ProductID)  
FROM Products;
```

AVG

```
SELECT AVG(column_name)  
FROM table_name  
WHERE condition;
```

```
SELECT AVG(Price)  
FROM Products;
```


ALIASES / AS

```
SELECT column_name AS alias_name  
FROM table_name;
```

```
SELECT CustomerID AS ID , CustomerName AS Customer  
FROM Customers;
```

```
SELECT CustomerName + Address + ' ' + PostalCode + ' ' + City  
+ ' ' + Country AS Address  
FROM Customers;
```

```
SELECT o.OrderID o.OrderDate c.CustomerName  
FROM Customers AS c Orders AS o  
WHERE c.CustomerName= Around the Horn AND c.CustomerID=o.CustomerID;
```

A vertical decorative border on the left side of the slide, featuring a repeating geometric pattern of interlocking circles and teardrop shapes in teal and white.

Practice AGGREGATE FUNCTIONS

1. What is the total price of all Airbnb's in Ward 77?
2. What is the average price for a private room?
3. What is the highest min_nights in Ward 60?
4. In how many Airbnb's are shared rooms where you only need to stay for 1 night minimum

Practice AGGREGATE FUNCTIONS

1. What is the name of the most expensive listing?
2. How many Private room listings are there in this table?
3. What was the highest amount of reviews per month (name that column: "ReviewsPM") that has at least 200 reviews and costs more than R2000.
4. Show the average listing price for host_id: 3961453
 1. Additional query (Not a count) - what is the name of the host?