SUPERSALES DATASET

ANALYSIS USING AGGREGATE FUNCTIONS

```
1  CREATE DATABASE testonedb;
2  USE testonedb;
3  SELECT *FROM salesrecords;
4
5
6
7
8
9
10
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

ï»¿Row ID+O6G3A1:R6	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City
4918	CA-2019-160304	01-01-2019	07-01-2019	Standard Class	BM-11575	Brendan Murry	Corporate	United States	Gaither
4919	CA-2019-160304	02-01-2019	07-01-2019	Standard Class	BM-11575	Brendan Murry	Corporate	United States	Gaither
4920	CA-2019-160304	02-01-2019	07-01-2019	Standard Class	BM-11575	Brendan Murry	Corporate	United States	Gaither
3074	CA-2019-125206	03-01-2019	05-01-2019	First Class	LR-16915	Lena Radford	Consumer	United States	Los An
8604	US-2019-116365	03-01-2019	08-01-2019	Standard Class	CA-12310	Christine Abelman	Corporate	United States	San An
8605	US-2019-116365	03-01-2019	08-01-2019	Standard Class	CA-12310	Christine Abelman	Corporate	United States	San An
8606	US-2019-116365	03-01-2019	08-01-2019	Standard Class	CA-12310	Christine Abelman	Corporate	United States	San An
9494	CA-2019-105207	03-01-2019	08-01-2019	Standard Class	BO-11350	Bill Overfelt	Corporate	United States	Broken
9495	CA-2019-105207	03-01-2019	08-01-2019	Standard Class	BO-11350	Bill Overfelt	Corporate	United States	Broken
2898	US-2019-164630	04-01-2019	09-01-2019	Standard Class	EB-13975	Erica Bern	Corporate	United States	Charlo
5868	CA-2019-158211	04-01-2019	08-01-2019	Standard Class	BP-11185	Ben Peterman	Corporate	United States	Philade
5869	CA-2019-158211	04-01-2019	08-01-2019	Standard Class	BP-11185	Ben Peterman	Corporate	United States	Philade
863	CA-2019-134474	05-01-2019	07-01-2019	Second Class	AJ-10795	Anthony Johnson	Corporate	United States	Jackso
864	CA-2019-134474	05-01-2019	07-01-2019	Second Class	AJ-10795	Anthony Johnson	Corporate	United States	Jackso

salesrecords 1

```
9   --  Use EXTRACT(MONTH FROM order_date) for month
10  SELECT
11    STR_TO_DATE(`Order Date`, '%d-%m-%Y') AS converted_date,
12    EXTRACT(MONTH FROM STR_TO_DATE(`Order Date`, '%d-%m-%Y')) AS order_month
13  FROM salesrecords;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

converted_date	order_month
2019-01-01	1
2019-01-02	1
2019-01-02	1
2019-01-03	1
2019-01-03	1
2019-01-03	1
2019-01-03	1
2019-01-03	1
2019-01-03	1
2019-01-04	1
2019-01-04	1
2019-01-04	1
2019-01-05	1
2019-01-05	1
2019-01-05	1

Result 13

```sql
-- GROUP BY year/month
SELECT
  EXTRACT(YEAR FROM STR_TO_DATE(`Order Date`, '%d-%m-%Y')) AS order_year,
  EXTRACT(MONTH FROM STR_TO_DATE(`Order Date`, '%d-%m-%Y')) AS order_month
FROM salesrecords
GROUP BY order_year, order_month;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

order_year	order_month
2019	1

```sql
-- Calculates total revenue using SUM(sales)
SELECT
  EXTRACT(YEAR FROM STR_TO_DATE(`Order Date`, '%d-%m-%Y')) AS order_year,
  EXTRACT(MONTH FROM STR_TO_DATE(`Order Date`, '%d-%m-%Y')) AS order_month,
  SUM(sales) AS total_revenue
FROM salesrecords
GROUP BY order_year, order_month
ORDER BY order_year, order_month;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

order_year	order_month	total_revenue
2019	1	12926.478999999996

```sql
-- Count Distinct Orders (Volume) by Year/Month:
SELECT
  EXTRACT(YEAR FROM STR_TO_DATE(`Order Date`, '%d-%m-%Y')) AS order_year,
  EXTRACT(MONTH FROM STR_TO_DATE(`Order Date`, '%d-%m-%Y')) AS order_month,
  COUNT(DISTINCT `Order ID`) AS order_volume
FROM salesrecords
GROUP BY order_year, order_month
ORDER BY order_year, order_month;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

order_year	order_month	order_volume
2019	1	36

```sql
-- Use ORDER BY for sorting by year and month
SELECT
  EXTRACT(YEAR FROM STR_TO_DATE(`Order Date`, '%d-%m-%Y')) AS order_year,
  EXTRACT(MONTH FROM STR_TO_DATE(`Order Date`, '%d-%m-%Y')) AS order_month,
  SUM(sales) AS total_revenue
FROM salesrecords
GROUP BY order_year, order_month
ORDER BY order_year, order_month;
```

esult Grid | Filter Rows: | Export: | Wrap Cell Content:

order_year	order_month	total_revenue
2019	1	12926.478999999996

```sql
-- Total Sales and Profit by Category
SELECT
  Category,
  SUM(sales) AS total_sales,
  SUM(profit) AS total_profit
FROM salesrecords
GROUP BY Category
ORDER BY total_sales DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Category	total_sales	total_profit
Furniture	6117.233000000001	976.8990000000002
Technology	4070.5060000000003	764.1752000000001
Office Supplies	2738.7400000000002	677.4545999999999

```sql
-- Sales by Region
SELECT
  Region,
  SUM(sales) AS total_sales
FROM salesrecords
GROUP BY Region
ORDER BY total_sales DESC;
```

Result Grid | Filter Rows: | Export:

Region	total_sales
East	4079.165
Central	3702.2960000000003
South	2686.0760000000005
West	2458.942

```sql
-- Revenue by Payment Mode
SELECT
  `Payment Mode`,
  SUM(sales) AS total_sales
FROM salesrecords
GROUP BY `Payment Mode`
ORDER BY total_sales DESC;
```

Result Grid | Filter Rows:

Payment Mode	total_sales
Online	6255.737999999999
COD	5002.5869999999995
Cards	1668.1539999999995