

Data Spark: Illuminating Insights for Global Electronics

```
use global_electronics;  
select * from customer_data;  
select * from exchange_data;  
select * from product_details;  
select * from sales_data;  
select * from stores_data;
```

```
select count(Gender) as Female_count from customer_data  
where Gender="Female";
```

	Female_count
▶	7518

```
select count(Gender) as Male_count from customer_data  
where Gender="Male";
```

	Male_count
▶	7748

```
select count(distinct city) as Distinct_City_Count from customer_data;
```

	Distinct_City_Count
▶	8256

```
select Gender, count(CustomerKey)*100.0/(select count(*) from customer_data) As Percentage_of_male_and_female from customer_data  
group by Gender;
```

	Gender	Percentage_of_male_and_female
	Female	49.2467
▶	Male	50.7533

```
select count(CustomerKey) As Total_Customers from customer_data;
```

	Total_Customers
▶	15266

```
select Continent, count(CustomerKey)*100.0/(select count(*) from customer_data) as Continent_wise_customer
from customer_data
group by Continent;
```

	Continent	Continent_wise_customer
▶	Australia	9.30172
	North America	54.89978
	Europe	35.79851

```
select Country, count(CustomerKey) as Country_wise_customer
from customer_data
group by Country;
```

	Country	Country_wise_customer
▶	Australia	1420
	Canada	1553
	Germany	1473
	France	670
	Italy	645
	Netherlands	733
	United Kingdom	1944
	United States	6828

```
select City, Gender, count(CustomerKey) As customers_based_on_city
from customer_data
group by City,Gender;
```

	City	Gender	customers_based_on_city
	Milwaukee	Male	13
	Pontiac	Female	3
	Hattiesburg	Female	1
	Baton Rouge	Female	2
	Fairbanks	Female	2
	Elmsford	Male	8
	Millburn	Male	1
	Hazelwood	Male	1
	Camarillo	Female	1
	Sacramento	Male	18
	West Palm Beach	Male	6
	Kennewick	Male	2
	Goodland	Male	1
	Omak	Male	1
	Centerville	Male	1
	Indianapolis	Female	17
	Tampa	Female	16
	Fort Worth	Male	8
	Dayton	Male	6
	Stevens Point	Male	1
	Fort Myers	Male	8
	Chicago	Male	47

```
select count(distinct Brand) as Distinct_Brand_count
from product_details;
```

	Distinct_Brand_count
▶	11

```
SELECT
    SUM(
        CAST(REPLACE(REPLACE(unit_price_USD, '$', ''), ',', '') AS DECIMAL(10, 2))
        - CAST(REPLACE(REPLACE(unit_cost_USD, '$', ''), ',', '') AS DECIMAL(10, 2))
    ) AS total_profit
FROM product_details;
```

	total_profit
▶	526492.39

```

SELECT
    DATE_FORMAT(Date, '%M') AS month_name,
    SUM(Exchange) AS total_exchange
FROM exchange_data
GROUP BY DATE_FORMAT(Date, '%Y-%m-%dd'), date_format(Date, '%M')
ORDER BY MIN(Date);

```

	month_name	total_exchange
	March	10.334800004959106
	March	10.395800113677979
	April	10.381199955940247
	April	10.375399827957153
	April	10.375399827957153

```

SELECT
    YEAR(Order_Date) AS Year,
    SUM(Quantity) AS Total_Quantity
FROM sales_data
GROUP BY
    YEAR(Order_Date)
ORDER BY
    Year;

```

	Year	Total_Quantity
►	2016	21761
	2017	24798
	2018	44498
	2019	68440
	2020	34463
	2021	3797

```

SELECT
    Country,
    SUM(Square_Meters) AS Total_Square_Meters
FROM
    stores_data
GROUP BY
    Country;

```

	Country	Total_Square_Meters
▶	Australia	9260
	Canada	7130
	France	2390
	Germany	12750
	Italy	4300
	Netherlands	6125
	United Kingdom	12600
	United States	37990
	Online	0

```

SELECT
    Currency_Code,
    COUNT(ProductKey) AS Product_Key_Count,
    SUM(Quantity) AS Total_Quantity
FROM
    sales_data
GROUP BY
    Currency_Code
ORDER BY
    Total_Quantity DESC;

```

	Currency_Code	Product_Key_Count	Total_Quantity
▶	USD	33767	106407
	EUR	12621	40050
	GBP	8140	25298
	CAD	5415	16793
	AUD	2941	9209

2941