SQL COMMANDS

1. Customers by Gender and Continent

SELECT

Gender, Continent, COUNT(CustomerKey) AS TotalCustomers

FROM

data\_spark

GROUP BY

Gender, Continent

ORDER BY

TotalCustomers DESC;

1. Age Groups by Country

SELECT

Country\_x AS Country,

CASE

WHEN Age < 25 THEN 'Under 25'

WHEN Age BETWEEN 25 AND 35 THEN '25-35'

WHEN Age BETWEEN 36 AND 50 THEN '36-50'

ELSE 'Above 50'

END AS AgeGroup,

COUNT(CustomerKey) AS CustomerCount

FROM

data\_spark

GROUP BY

Country, AgeGroup

ORDER BY

CustomerCount DESC;

1. Customer Distribution by State and City

SELECT

`State\_x` AS State, City,

COUNT(CustomerKey) AS CustomerCount

FROM

data\_spark

GROUP BY

State, City

ORDER BY

CustomerCount DESC

LIMIT 10;

1. Preferred Colors by Gender

SELECT

Gender, Color, COUNT(ProductKey) AS ProductsPurchased

FROM

data\_spark

GROUP BY

Gender, Color

ORDER BY

ProductsPurchased DESC

LIMIT 5;

1. Overall Sales Performance by Year

SELECT

YEAR(`Order Date`) AS Year,

SUM(Quantity \* `Unit Price USD`) AS TotalSales

FROM

data\_spark

GROUP BY

Year

ORDER BY

Year;

1. Top 5 Stores by Total Revenue

SELECT

StoreKey,

SUM(Quantity \* `Unit Price USD`) AS TotalRevenue

FROM

data\_spark

GROUP BY

StoreKey

ORDER BY

TotalRevenue DESC

LIMIT 5;

1. Sales by Currency

SELECT

`Currency Code`,

SUM(Quantity \* `Unit Price USD`) AS TotalSales,

MIN(Exchange) AS MinExchangeRate,

MAX(Exchange) AS MaxExchangeRate

FROM

data\_spark

GROUP BY

`Currency Code`

ORDER BY

TotalSales DESC;

1. Top Performing Brands by Revenue

SELECT

Brand,

SUM(Quantity \* `Unit Price USD`) AS TotalRevenue

FROM

data\_spark

GROUP BY

Brand

ORDER BY

TotalRevenue DESC

LIMIT 5;

1. Profitability by Product Category

SELECT

Category,

SUM((`Unit Price USD` - `Unit Cost USD`) \* Quantity) AS Profit

FROM

data\_spark

GROUP BY

Category

ORDER BY

Profit DESC;

1. Category Sales by Subcategory

SELECT

Category, Subcategory,

SUM(Quantity \* `Unit Price USD`) AS SubcategorySales

FROM

data\_spark

GROUP BY

Category, Subcategory

ORDER BY

SubcategorySales DESC

LIMIT 10;