Query Results

Product Code	Product Name	Order Count
S18_3232	1992 Ferrari 360 Spi...	1014
S18_1342	1937 Lincoln Berline	873
S24_3856	1956 Porsche 356A ...	850
S12_2823	2002 Suzuki XREO	807
S18_1889	1948 Porsche 356-...	798
S18_4522	1904 Buick Runabout	792
S700_3505	The Titanic	771
S24_2000	1960 BSA Gold Star ...	771
S18_2319	1964 Mercedes Tou...	764
S24_3151	1912 Ford Model T D...	762

Query Editor

Run query

```
SELECT DISTINCT p.productcode AS "Product Code",
                productname AS "Product Name",
                SUM(o.quantityordered) OVER (PARTITION BY p.productcode) AS "Order Count"
FROM "alanparadise/cm".products p
JOIN "alanparadise/cm".orderdetails o
ON p.productcode = o.productcode
GROUP BY 1, 2, p.productline, o.quantityordered
ORDER BY 3 DESC
LIMIT 10;
```

Completed SELECT command 20s ago

Documentation

alanparadise/cm/Customers

Click the pencil to document this table.

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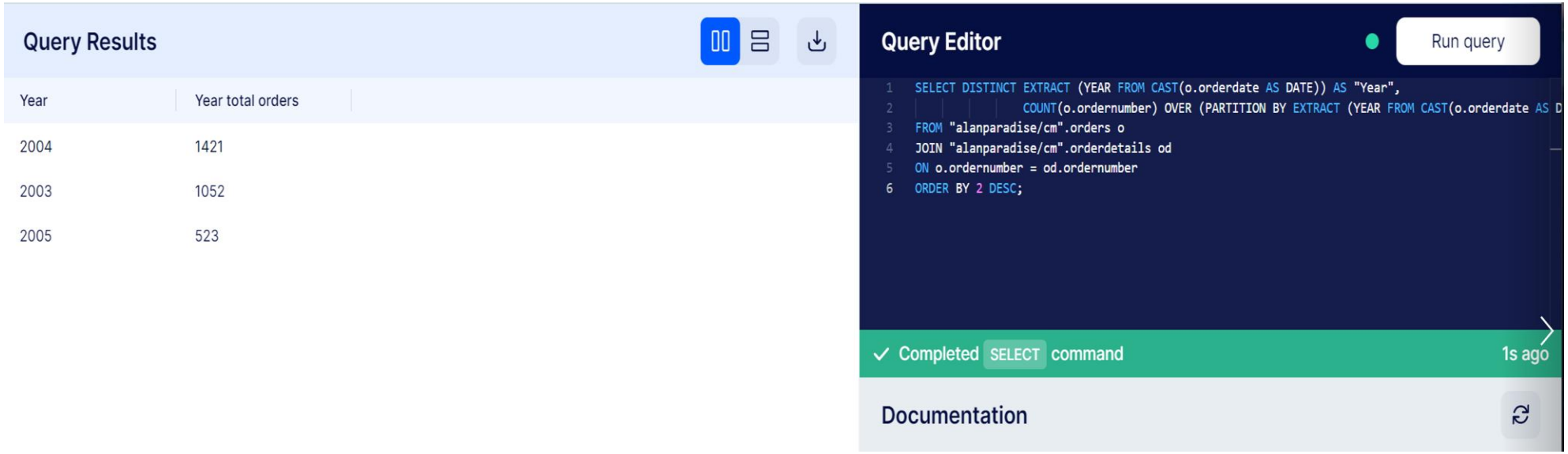
1. List the top 10 products' ProductName, ProductCode, and number of orders for the products with respect to number of orders, in decreasing order. This is to examine the popularity of the models to formulate profitable business strategies.

CODE

```
SELECT DISTINCT p.productcode AS "Product Code",
                productname AS "Product Name",
                SUM(o.quantityordered) OVER (PARTITION BY p.productcode) AS "Order Count"
FROM "alanparadise/cm".products p
JOIN "alanparadise/cm".orderdetails o
ON p.productcode = o.productcode
GROUP BY 1, 2, p.productline, o.quantityordered
ORDER BY 3 DESC
LIMIT 10;
```



2. List the total number of orders within each year in descending order. By observing the yearly variance in order quantities, we can identify change in consumers' hobbies and overall trend in their spending.

CODE

```
SELECT DISTINCT EXTRACT (YEAR FROM CAST(o.orderdate AS DATE)) AS "Year",
                        COUNT(o.ordernumber) OVER (PARTITION BY EXTRACT (YEAR FROM CAST(o.orderdate AS DATE))) AS "Year total orders"
FROM "alanparadise/cm".orders o
JOIN "alanparadise/cm".orderdetails od
ON o.ordernumber = od.ordernumber
ORDER BY 2 DESC;
```

Query Results

productname	productline	Profit gained from 2003 - 2004
1957 Corvette Conv...	Classic Cars	261454.05910491943
2001 Ferrari Enzo	Classic Cars	154849.80926513672
1961 Chevrolet Impala	Classic Cars	136798.18450927734
2003 Harley-Davids...	Motorcycles	134253.1291809082
HMS Bounty	Ships	131996.74649047852

Query Editor

Run query

```
25
26  SELECT p.productname, productline,
27         SUM(PROFIT_2004 - PROFIT_2003) AS "Profit gained from 2003 - 2004"
28  FROM year04
29  JOIN year03
30  ON year04."Product Name" = year03."Product Name"
31  JOIN "alanparadise/cm".products p
32  ON p.productname = year04."Product Name"
33  GROUP BY 1, 2
34  ORDER BY 3 DESC
35  LIMIT 5;
```

Completed SELEC

Documentation

3. Name the top 5 products that has shown the greatest increase in profit from 2003 to 2004,
as well as the profit amount. This allows a closer examination of people's tastes in classic models
and can further determine the effect that current pop-culture and other variables have on the industry.

CODE

```
WITH year04 AS
    (SELECT p.productname AS "Product Name",
            (MAX(MSRP - BuyPrice) * (SUM(quantityordered) OVER (PARTITION BY p.productname))) AS PROFIT_2004,
            EXTRACT (YEAR FROM CAST(o.orderdate AS DATE)) AS "Year"
      FROM "alanparadise/cm".products p
      JOIN "alanparadise/cm".orderdetails od
      ON p.productcode = od.productcode
      JOIN "alanparadise/cm".orders o
      ON o.ordernumber = od.ordernumber
      WHERE EXTRACT (YEAR FROM CAST(o.orderdate AS DATE)) = 2004
      GROUP BY 1, od.quantityordered, 3),

    year03 AS
    (SELECT DISTINCT p.productname AS "Product Name",
            (MAX(MSRP - BuyPrice) * (SUM(quantityordered) OVER (PARTITION BY p.productname))) AS PROFIT_2003,
            EXTRACT (YEAR FROM CAST(o.orderdate AS DATE)) AS "Year"
      FROM "alanparadise/cm".products p
      JOIN "alanparadise/cm".orderdetails od
      ON p.productcode = od.productcode
      JOIN "alanparadise/cm".orders o
      ON o.ordernumber = od.ordernumber
      WHERE EXTRACT (YEAR FROM CAST(o.orderdate AS DATE)) = 2003
      GROUP BY 1, od.quantityordered, 3)


SELECT p.productname, productline,
       SUM(PROFIT_2004 - PROFIT_2003) AS "Profit gained from 2003 - 2004"
FROM year04
JOIN year03
ON year04."Product Name" = year03."Product Name"
JOIN "alanparadise/cm".products p
ON p.productname = year04."Product Name"
GROUP BY 1, 2
ORDER BY 3 DESC
LIMIT 5;
```