1. Creating a Sales-Focused Inventory View

This view is designed to enhance the capabilities of the sales department by providing a comprehensive inventory list. It includes detailed information that allows vendors to communicate more accurately with clients and effectively monitor inventory status.

```
CREATE VIEW V_Sales_List AS
SELECT

manufacturer_name AS Manufacturer,
model_name AS Model,
year_produced AS Year,
color AS Color,
odometer_value AS "Mileage (km)",
engine_fuel AS "Fuel Type",
engine_capacity AS Engine,
has_warranty AS "Has Warranty?",
price_usd AS "Price USD"
FROM
cars;
```

2. Inventory per brand

```
SELECT
manufacturer_name AS Manufacturer,
COUNT(*) AS Total_Cars,
CAST(AVG(year_produced) AS INT) AS Average_Year,
CAST(AVG(price_usd) AS INT) AS Average_Price,
CAST(SUM(price_usd) AS INT) AS Total_Price
FROM
cars
GROUP BY
manufacturer_name
ORDER BY
Total_Cars DESC;
```

3. Warranty Status

```
SELECT
has_warranty AS Warranty_Status,
COUNT(*) AS Total_Stock
FROM
cars
GROUP BY
has_warranty;
```

4. Inventory per decade of manufacturing

```
SELECT

((CAST(year_produced AS INTEGER) / 10) * 10) || 's' AS Decade,

COUNT(*) AS Cars_Per_Decade,

SUM(price_usd) AS Total_Price

FROM

cars

GROUP BY

((CAST(year_produced AS INTEGER) / 10) * 10) || 's'

ORDER BY

Decade:
```

5. Distribution of inventory per color

```
SELECT
color AS Color,
COUNT(*) AS Total_Cars,
CAST(AVG(year_produced) AS INT) AS Average_Year,
CAST(AVG(price_usd) AS INT) AS Average_Price
FROM
cars
GROUP BY
color
ORDER BY
Total_Cars DESC;
```

6. Top 5 brands per likes x % inventory

```
-- Calculate the total inventory and the upvotes for the top 5 brands
```

```
WITH BrandUpvotes AS (
SELECT
manufacturer name,
SUM(up_counter) AS Total_Upvotes
FROM
cars
GROUP BY
manufacturer_name
ORDER BY
Total_Upvotes DESC
LIMIT 5
),
TotalInventory AS (
SELECT
COUNT(*) AS Total_Cars
FROM
cars
```

-- Calculate the percentage of total inventory for each top brand

SELECT

b.manufacturer_name AS Brand,

b.Total_Upvotes,

ROUND((COUNT(c.manufacturer_name) * 100.0) / t.Total_Cars, 2) AS

Inventory_Percentage

FROM

cars c

JOIN

BrandUpvotes b ON c.manufacturer_name = b.manufacturer_name

CROSS JOIN

TotalInventory t

GROUP BY

b.manufacturer_name

ORDER BY

b.Total_Upvotes DESC;