

## STEEVE'S CAR SHOWROOM CHALLENGE

--> What are the details of all cars purchased in the year 2022?

```
SELECT C.CAR_ID, C.MAKE, C.TYPE, C.STYLE, C.COST_$
FROM cars AS C
JOIN sales AS S
ON C.CAR_ID = S.CAR_ID
WHERE YEAR(S.PURCHASE_DATE) = 2022
```

--> What is the total number of cars sold by each salesperson?

```
SELECT S.SALESMAN_ID, SP.NAME, COUNT(S.CAR_ID) AS TOTAL_CARS_SOLD
FROM sales AS S
JOIN salespersons as SP
ON S.SALESMAN_ID = SP.SALESMAN_ID
GROUP BY S.SALESMAN_ID, SP.NAME
```

--> What is the total revenue generated by each salesperson?

```
SELECT S.SALESMAN_ID, SP.NAME, SUM(C.COST_$) AS TOTAL_REVENUE
FROM sales AS S
JOIN cars as C
ON S.CAR_ID = C.CAR_ID
JOIN salespersons AS SP
ON S.SALESMAN_ID = SP.SALESMAN_ID
GROUP BY S.SALESMAN_ID, SP.NAME
```

--> What are the details of the cars sold by each salesperson?

```
SELECT S.SALESMAN_ID, SP.NAME, C.CAR_ID, C.MAKE, C.TYPE, C.STYLE, C.COST_$
FROM CARS AS C
JOIN SALES AS S
ON C.CAR_ID=S.CAR_ID
JOIN SALESPERSONS AS SP
ON S.SALESMAN_ID = SP.SALESMAN_ID
ORDER BY SALESMAN_ID
```

--> What are the details of the cars sold in the year 2021 by salesperson 'Emily Wong'?

```
SELECT C.CAR_ID, C.MAKE, C.TYPE, C.STYLE, C.COST_$
FROM cars AS C
JOIN sales AS S
ON C.CAR_ID = S.CAR_ID
JOIN salespersons as SP
ON SP.SALESMAN_ID = S.SALESMAN_ID
WHERE YEAR(S.PURCHASE_DATE) = 2021
and NAME = 'EMILY WONG'
```

--> Create a view combining all the three tables?

```
CREATE VIEW SALES_CAR_DETAILS AS
SELECT S.SALE_ID, S.CAR_ID, S.SALESMAN_ID, S.PURCHASE_DATE,C.MAKE, C.TYPE, C.STYLE, C.COST_$,SP.NAME, SP.AGE, SP.CITY
FROM SALES AS S
JOIN CARS AS C
ON S.CAR_ID= C.CAR_ID
JOIN SALESPERSONS AS SP
ON S.SALESMAN_ID=SP.SALESMAN_ID
```

--> What is the total revenue generated by the sales of hatchback cars?

```
SELECT S.CAR_ID, C.STYLE, SUM(COST_$) AS TOTAL_REVENUE
FROM SALES AS S
JOIN CARS AS C
ON S.CAR_ID = C.CAR_ID
WHERE C.STYLE = 'HATCHBACK'
GROUP BY S.CAR_ID,C.STYLE
```

--> What is the total revenue generated by each car type?

```
SELECT C.TYPE, SUM(COST_$) AS TOTAL_REVENUE
FROM SALES AS S
JOIN CARS AS C
ON S.CAR_ID = C.CAR_ID
GROUP BY S.CAR_ID,C.TYPE
```

--> What is the total revenue generated by the sales of SUV cars in the year 2022?

```
SELECT C.STYLE, SUM(COST_$) AS TOTAL_REVENUE
FROM SALES AS S
JOIN CARS AS C
ON S.CAR_ID = C.CAR_ID
WHERE C.STYLE = 'SUV' AND YEAR(S.PURCHASE_DATE) = 2022
GROUP BY C.STYLE
```

--> What is the name and city of the salesperson who sold the most number of cars in the year 2023?

```
SELECT TOP 1 SP.NAME, SP.CITY , COUNT(S.SALESMAN_ID) AS TIMES_SOLD
FROM SALESPERSONS AS SP
JOIN SALES AS S
ON S.SALESMAN_ID = SP.SALESMAN_ID
WHERE YEAR(S.PURCHASE_DATE) = 2023
GROUP BY SP.NAME, SP.CITY
ORDER BY TIMES_SOLD DESC
```

--> What is the name of the salesperson who generated the highest revenue in the year 2022?

```
SELECT TOP 1 SP.NAME, SUM(C.COST_$) AS TOTAL_REVENUE
FROM SALESPERSONS AS SP
JOIN
SALES AS S
ON SP.SALESMAN_ID = S.SALESMAN_ID
JOIN CARS AS C
ON C.CAR_ID = S.CAR_ID
WHERE YEAR(S.PURCHASE_DATE) = 2022
GROUP BY SP.NAME
ORDER BY TOTAL_REVENUE DESC
```