

SQL CHALLENGE - 1

STEVE'S CAR SHOWROOM



CHALLENGE - I STEVES CAR SHOWROOM

- SELECT * FROM CARS;
- SELECT * FROM SALES;
- SELECT * FROM SALESPERSONS;

1. WHAT ARE THE DETAILS OF ALL CARS PURCHASED IN THE YEAR 2022?

SYNTAX:

```
SELECT MAKE,TYPE,STYLE,COST_$,PURCHASE_DATE  
FROM CARS C JOIN SALES S  
ON C.CAR_ID = S.CAR_ID  
WHERE YEAR(PURCHASE_DATE)='2022';
```

OUTPUT:

	make	type	style	cost_\$	purchase_date
1	Toyota	Cordolla	Hatchback	25000	2022-01-01
2	Honda	Civic	Sedan	30000	2022-02-03
3	Nissan	Altima	Sedan	26000	2022-02-10
4	Mercedes	C-Class	Coupe	60000	2022-03-01
5	BMW	X5	SUV	55000	2022-04-02
6	Ford	Explorer	SUV	40000	2022-05-05
7	BMW	X5	SUV	55000	2022-06-07
8	Honda	Civic	Sedan	30000	2022-07-09

2. WHAT IS THE TOTAL NUMBER OF CARS SOLD BY EACH SALESPERSON?

SYNTAX:

```
SELECT NAME,COUNT(SALE_ID) AS TOTAL_CARS_SOLD  
FROM SALES S JOIN SALESPERSONS SP  
ON S.SALESMAN_ID= SP.SALESMAN_ID  
GROUP BY NAME  
ORDER BY TOTAL_CARS_SOLD DESC;
```

OUTPUT:

	name	Total_cars_sold
1	Tom Lee	6
2	Emily Wong	5
3	John Smith	5
4	Lucy Chen	4

3. WHAT IS THE TOTAL REVENUE GENERATED BY EACH SALESPERSON?

SYNTAX:

```
SELECT NAME,SUM(COST$_) AS TOTAL_REVENUE  
FROM CARS C JOIN SALES S  
ON C.CAR_ID = S.CAR_ID JOIN SALESPERSONS SP  
ON S.SALESMAN_ID= SP.SALESMAN_ID  
GROUP BY NAME  
ORDER BY TOTAL_REVENUE DESC;
```

OUTPUT:

	name	Total_Revenue
1	Tom Lee	253000
2	John Smith	181000
3	Emily Wong	177000
4	Lucy Chen	171000

4. WHAT ARE THE DETAILS OF THE CARS SOLD BY EACH SALESPERSON?

SYNTAX:

```
SELECT NAME, COUNT(MAKE) AS CAR_SOLD, MAKE, TYPE, STYLE, (COST_$ *  
COUNT(MAKE)) AS TOTAL_COST  
FROM CARS C JOIN SALES S  
ON C.CAR_ID = S.SALE_ID JOIN SALESPERSONS SP  
ON SP.SALESMAN_ID = S.SALESMAN_ID  
GROUP BY NAME, MAKE, TYPE, STYLE, COST_$  
ORDER BY CAR_SOLD DESC;
```

4.OUTPUT:

	name	car_sold	make	type	style	Total_cost
1	Emily Wong	1	Ford	Explorer	SUV	40000
2	Emily Wong	1	Mercedes	C-Class	Coupe	60000
3	John Smith	1	Audi	A4	Sedan	48000
4	John Smith	1	BMW	X5	SUV	55000
5	John Smith	1	Honda	Civic	Sedan	30000
6	Lucy Chen	1	Chevrolet	Camaro	Coupe	36000
7	Tom Lee	1	Nissan	Altima	Sedan	26000
8	Tom Lee	1	Toyota	Corolla	Hatchback	25000

5. WHAT IS THE TOTAL REVENUE GENERATED BY EACH CAR TYPE?

SYNTAX:

```
SELECT TYPE, SUM(COST_$) AS REVENUE_CAR  
FROM CARS  
GROUP BY TYPE  
ORDER BY REVENUE_CAR DESC;
```

OUTPUT:

	type	Revenue_car
1	C-Class	60000
2	X5	55000
3	A4	48000
4	Explorer	40000
5	Camaro	36000
6	Civic	30000
7	Altima	26000
8	Corolla	25000

6.WHAT ARE THE DETAILS OF THE CARS SOLD IN THE YEAR 2021 BY SALESPERSON 'EMILY WONG'?

SYNTAX:

```
SELECT NAME,TYPE,MAKE,COST_$,PURCHASE_DATE  
FROM CARS C JOIN SALES S  
ON C.CAR_ID = S.CAR_ID JOIN SALESPERSONS SP  
ON S.SALESMAN_ID = SP.SALESMAN_ID  
WHERE YEAR(PURCHASE_DATE) = '2021' AND NAME = 'EMILY WONG';
```

OUTPUT:

	name	type	make	cost_\$	purchase_date
1	Emily Wong	Corolla	Toyota	25000	2021-02-10
2	Emily Wong	Camaro	Chevrolet	36000	2021-06-07

7. WHAT IS THE TOTAL REVENUE GENERATED BY THE SALES OF HATCHBACK CARS?

SYNTAX:

```
SELECT STYLE,SUM(COST$_) AS TOTAL_REVENUE  
FROM CARS C JOIN SALES S  
ON C.CAR_ID = S.CAR_ID JOIN SALESPERSONS SP  
ON S.SALESMAN_ID = SP.SALESMAN_ID  
WHERE STYLE= 'HATCHBACK' GROUP BY STYLE;
```

OUTPUT:

	style	Total_Revenue
1	Hatchback	1000000

8. WHAT IS THE TOTAL REVENUE GENERATED BY THE SALES OF SUV CARS IN THE YEAR 2022?

SYNTAX:

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

OUTPUT:

	style	Total_Revenue
1	SUV	150000

9. WHAT IS THE NAME AND CITY OF THE SALESPERSON WHO SOLD THE MOST NUMBER OF CARS IN THE YEAR 2023?

SYNTAX:

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

OUTPUT:

	name	city	sold_cars	(No column name)
1	Tom Lee	Seattle	2	2023

10. WHAT IS THE NAME AND AGE OF THE SALESPERSON WHO GENERATED THE HIGHEST REVENUE IN THE YEAR 2022?

SYNTAX:

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

OUTPUT:

	name	age	Highest_revenue
1	Emily Wong	35	116000

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