SQL CHALLENGE BY STEEL DATA

* Shubham runs a top end car showroom but his data analyst has just quit and left him without his crucial insights.
* The following data needs to be analyzed to provide shubham with all the insights he requires.
* The case study has 3 tables…

1. Sales
2. Cars,Salespersons

Q1-what are the details of all cars purchased in the year 2022?

Solution-

select c.car\_id,c.make,c.type,c.cost,c.style,s.purchase\_date from cars c inner join sales s on s.car\_id=c.car\_id

where year(s.purchase\_date)=”2022” ;

Q2-what is the total number of cars sold by each salesperson?

Solution-

select s.salesman\_id,sp.name,count(\*) as number\_of\_car\_sold from sales s

join salespersons sp on s.salesman\_id=sp.salesman\_id

group by s.salesman\_id

order by number\_of\_car\_sold

Q- what is the total revenue generated by each salesperson?

Select sp.name,sum(c.cost) as total\_revenue\_generated

From sales s inner join salespersons sp on s.salesman\_id=sp.salesman\_id

Inner join cars c on s.car\_id=c.car\_id

Group by sp.name ;

Q-what are the details of the cars sold by each salespersons?

Select s.salesman\_id,sp.name,c.car\_id,c.make,c.type,c.style,c.cost from sales s inner join cars c on sales.car\_id=cars.car\_id

Inner join salespersons sp on sales.salesman\_id=salespersons.salesman\_id

Q-what is the total revenue generated by each car type?

Select c.type,sum(c.cost)as total\_revenue\_generated from cars c

Inner join sales s on c.car\_id=s.car\_id

Group by c.type

Order by c.type ;

Q-what are the details of the cars sold in the year 2021 by salesperson ‘emily wong”?

Ans-

select c.car\_id,c.make,c.type,c.style,c.cost from sales s inner join cars c on s.car\_id=c.car\_id

inner join salesperson sp on s.salesman\_id=sp.salesman\_id

where sp.name =’Emily Wong’ and year(s.purchase\_date)=”2021”;

Q-what is the total revenue generated by the sales of hatchback cars?

Ans-

Select c.style, sum(c.cost) as total\_revenue\_generated

From cars c inner join sales s on s.car\_id=c.car\_id

Group by c.style

Having c.style=’hatchback’;

Q-what is the total revenue generated by the sales of suv cars in the year 2022?

Ans-

Select c.style sum(c.cost) as total\_revenue\_generated

From cars c inner join sales s on cars.car\_id=sales.car\_id

Where c.style=”suv” and year(purchase\_date) =2022

Group by =c.style ;

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

Ans-

Select sp.name,sp.city,count(\*) as most\_car\_sold

From salesperson sp inner join sales s on sp.salesperson\_id=s.salesperson\_id

Where year(purchase\_date)=”2023”

Group by sp.name,sp.city

Order by count(\*) as most car sold desc

Limit1;