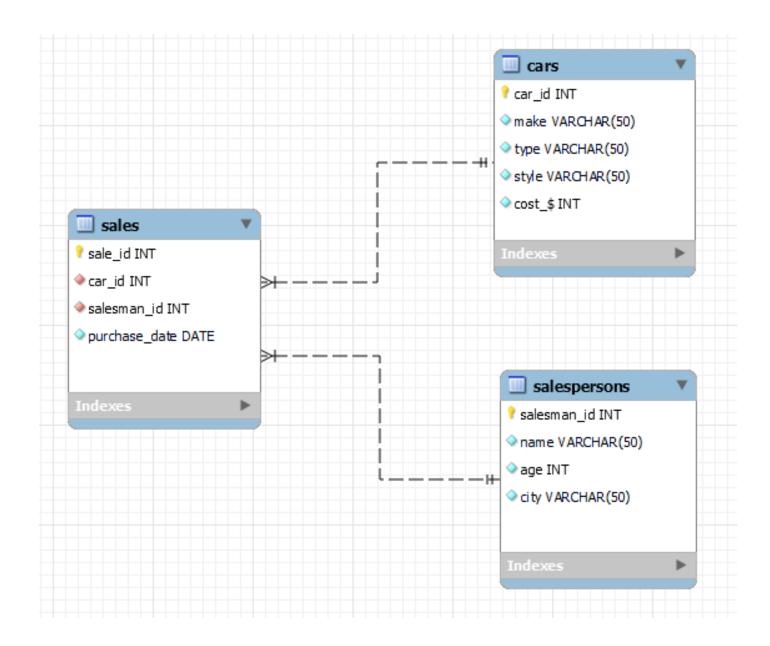


SQL
Challenge 1:
Steve's Car
Showroom



Tables

sales

sale_id	car_id	salesman_id	purchase_date
1	1	1	2021-01-01
2	3	3	2021-02-03
3	2	2	2021-02-10
4	5	4	2021-03-01
5	8	1	2021-04-02
6	2	1	2021-05-05
7	4	2	2021-06-07
8	5	3	2021-07-09
9	2	4	2022-01-01
10	1	3	2022-02-03
11	8	2	2022-02-1-
12	7	2	2022-03-01
13	5	3	2022-04-02
14	3	1	2022-05-05
15	5	4	2022-06-07
16	1	2	2022-07-09
17	2	3	2023-01-01
18	6	3	2023-02-03
19	7	1	2023-02-10
20	4	4	2023-03-01

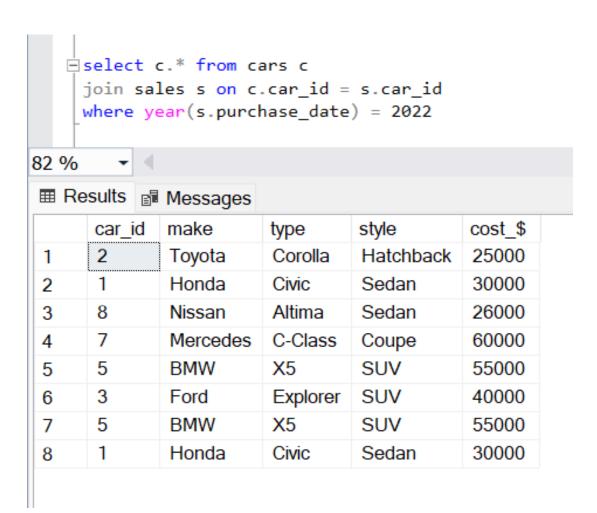
cars

car_id	make	type	style	cost_\$
1	Honda	Civic	Sedan	30000
2	Toyota	Corolla	Hatchback	25000
3	Ford	Explorer	SUV	40000
4	Chevrolet	Camaro	Coupe	36000
5	BMW	X5	SUV	55000
6	Audi	A4	Sedan	48000
7	Mercedes	C-Class	Coupe	60000
8	Nissan	Altima	Sedan	26000

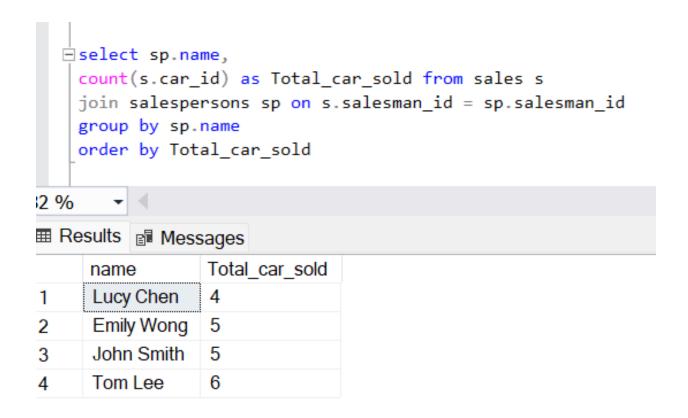
salespersons

salesman_id	name	age	city
1	John Smith	28	New York
2	Emily Wong	35	San Fran
3	Tom Lee	42	Seattle
4	Lucy Chen	31	LA

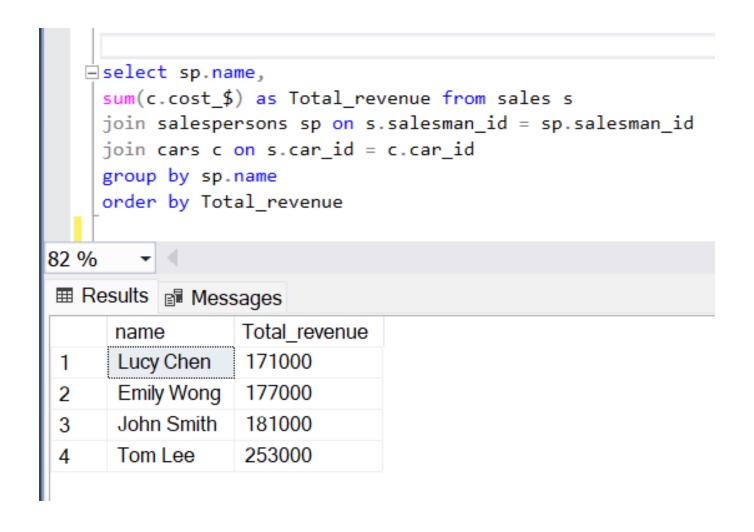
Q1. What are the details of all cars purchased in the year 2022?



Q2. What is the total number of cars sold by each salesperson?



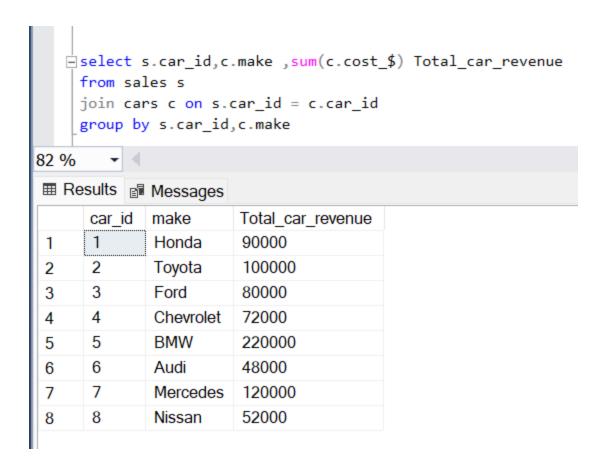
Q3. What is the total revenue generated by each salesperson?



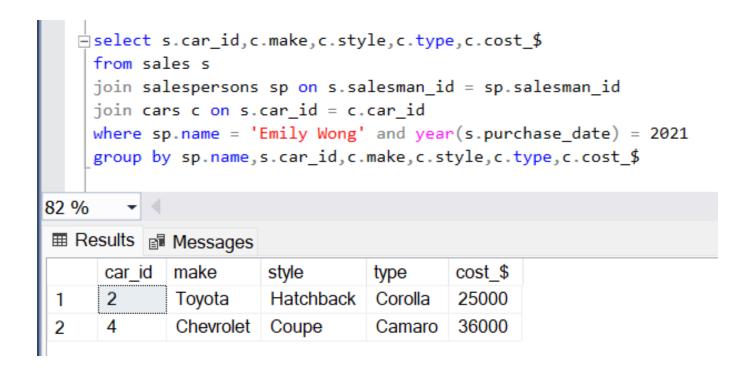
Q4. What are the details of the cars sold by each salesperson?



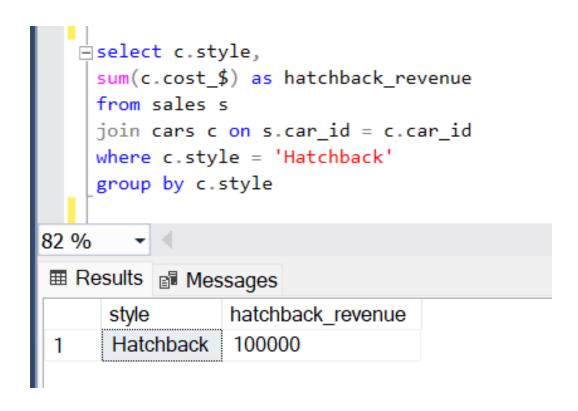
Q5. What is the total revenue generated by each car type?



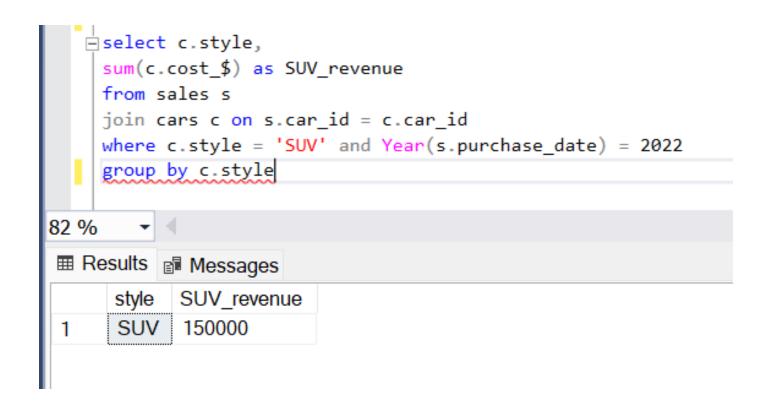
Q6. What are the details of the cars sold in the year 2021 by salesperson 'Emily Wong'?



Q7. What is the total revenue generated by the sales of hatchback cars?



Q8. What is the total revenue generated by the sales of SUV cars in the year 2022?



Q9. What is the name and city of the salesperson who sold the most number of cars in the year 2023?

```
⊕with cte as(
   select sp.name,sp.city,count(s.car_id) as Total_car_sell,
   ROW NUMBER() over(order by count(s.car id) desc) as rnk
   from sales s
   join salespersons sp on s.salesman id = sp.salesman id
   where year(s.purchase date) = 2023
   group by sp.name, sp.city
  where rnk = 1
Total car sell
    name
            Seattle 2
    Tom Lee
```

Q10. What is the name and age of the salesperson who generated the highest revenue in the year 2022?

```
⊟with cte as(
     select sp.name,sp.age,sum(c.cost_$) as Total_revenue,
     ROW NUMBER() over(order by sum(c.cost $) desc) as rnk
     from sales s
     join salespersons sp on s.salesman id = sp.salesman id
     join cars c on s.car id = c.car id
     where year(s.purchase date) = 2022
     group by sp.name, sp.age
     select name, age, Total revenue from cte
    where rnk = 1
82 %
Total revenue
      name
                      116000
      Emily Wong
```