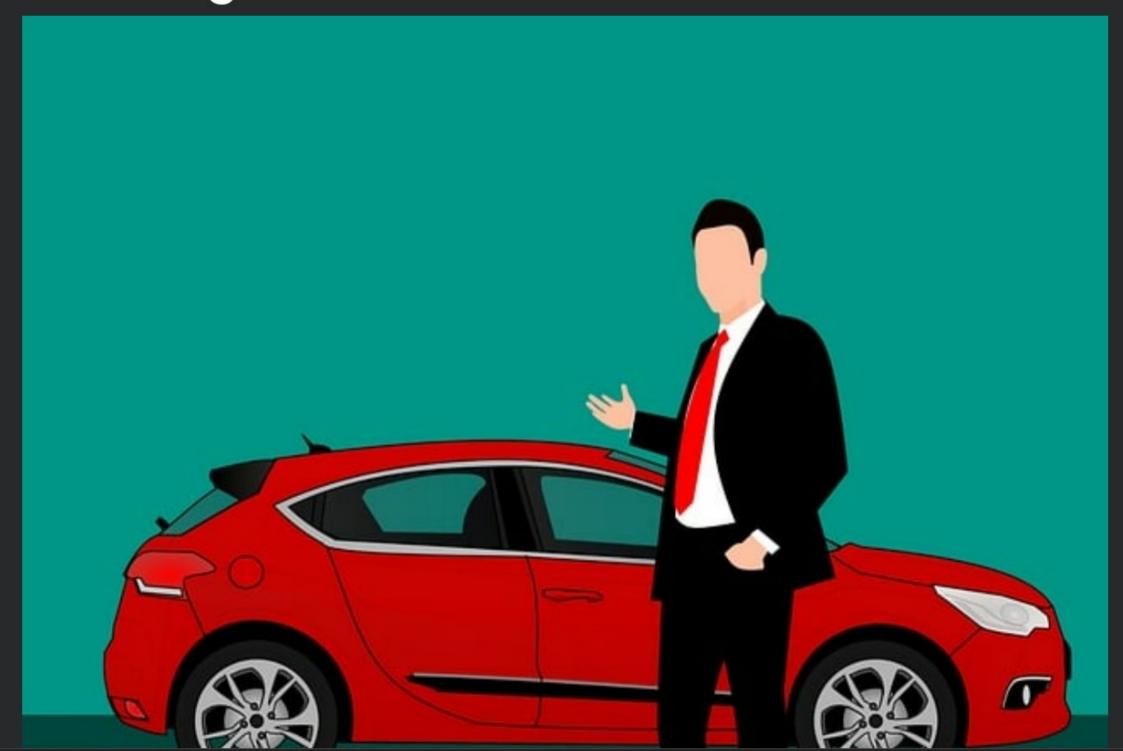
Challenge 1 - Steve's Car Showroom



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?
 2
       SELECT c.*, s.sale_id, s.salesman_id, s.purchase_date
 3 •
       FROM
4
           sales s
 5
           JOIN cars c
6
           ON s.car_id = c.car_id
7
8
       WHERE
           YEAR(s.purchase_date) = 2022
9
       ORDER BY
10
           s.purchase_date;
11
```

Re	esult Grid	#	Filter Rows:		E	xport:	Wrap Cell Co	ontent: IA
	car_id	make	type	style	cost_\$	sale_id	salesman_id	purchase_date
)	2	Toyota	Corolla	Hatchback	25000	9	4	2022-01-01
	1	Honda	Civic	Sedan	30000	10	3	2022-02-03
	8	Nissan	Altima	Sedan	26000	11	2	2022-02-10
	7	Mercedes	C-Class	Coupe	60000	12	2	2022-03-01
	5	BMW	X5	SUV	55000	13	3	2022-04-02
	3	Ford	Explorer	SUV	40000	14	1	2022-05-05
	5	BMW	X5	SUV	55000	15	4	2022-06-07
	1	Honda	Civic	Sedan	30000	16	2	2022-07-09

```
-- Q2. What is the total number of cars sold by each salesperson?
13
14
15 •
       SELECT s.salesman_id, sp.name, COUNT(s.sale_id) AS Cars_Sold
16
       FROM
           sales s
17
           JOIN salespersons sp
18
19
           ON s.salesman_id = sp.salesman_id
20
       GROUP BY
           s.salesman id
21
22
           , sp.name;
```

Export: Wrap Cell Content: IA

	salesman_id	name	Cars_Sold
•	1	John Smith	5
	2	Emily Wong	5
	3	Tom Lee	6
	4	Lucy Chen	4

Result Grid Filter Rows:

```
-- Q3. What is the total revenue generated by each salesperson?
 24
 25
         SELECT s.salesman_id, sp.name, CONCAT("$", SUM(c.cost_$)) AS Total_revenue_generated
 26 •
 27
         FROM
 28
             sales s
 29
             JOIN cars c
 30
             ON s.car id = c.car id
             JOIN salespersons sp
 31
 32
             ON s.salesman id = sp.salesman id
 33
         GROUP BY
 34
             s.salesman id
 35
             , sp.name;
Result Grid
              Filter Rows:
                                            Export: Wrap Cell Content: TA
   salesman_id
                          Total_revenue_generated
              name
              John Smith
                         $181000
  1
              Emily Wong
                         $177000
  3
              Tom Lee
                         $253000
  4
              Lucy Chen
                         $171000
```

```
-- Q4. What are the details of the cars sold by each salesperson?
37
38
        SELECT s.salesman_id
39 •
40
                , c.*
41
        FROM
            sales s
42
43
            LEFT JOIN cars c
44
            ON s.car_id = c.car_id
        ORDER BY
45
            s.salesman_id;
46
                                         Export: Wrap Cell Content: TA
Result Grid 🔠 🙌 Filter Rows:
 salesman_id car_id make
                                               cost $
                             type
                                      style
```

car_iu	HIGHE	сурс	Style	COSC_\$
1	Honda	Civic	Sedan	30000
8	Nissan	Altima	Sedan	26000
2	Toyota	Corolla	Hatchback	25000
3	Ford	Explorer	SUV	40000
7	Mercedes	C-Class	Coupe	60000
2	Toyota	Corolla	Hatchback	25000
4	Chevrolet	Camaro	Coupe	36000
8	Nissan	Altima	Sedan	26000
7	Mercedes	C-Class	Coupe	60000
1	Honda	Civic	Sedan	30000
3	Ford	Explorer	SUV	40000
5	BMW	X5	SUV	55000
1	Honda	Civic	Sedan	30000
5	BMW	X5	SUV	55000
2	Toyota	Corolla	Hatchback	25000
6	Audi	A4	Sedan	48000
5	BMW	X5	SUV	55000
2	Toyota	Corolla	Hatchback	25000
5	BMW	X5	SUV	55000
4	Chevrolet	Camaro	Coupe	36000
	1 8 2 3 7 2 4 8 7 1 3 5 1 5 2 6 5 2 5	1 Honda 8 Nissan 2 Toyota 3 Ford 7 Mercedes 2 Toyota 4 Chevrolet 8 Nissan 7 Mercedes 1 Honda 3 Ford 5 BMW 1 Honda 5 BMW 2 Toyota 6 Audi 5 BMW 2 Toyota 6 BMW 2 Toyota 6 BMW 2 Toyota 6 BMW	1 Honda Civic 8 Nissan Altima 2 Toyota Corolla 3 Ford Explorer 7 Mercedes C-Class 2 Toyota Corolla 4 Chevrolet Camaro 8 Nissan Altima 7 Mercedes C-Class 1 Honda Civic 3 Ford Explorer 5 BMW X5 1 Honda Civic 5 BMW X5 2 Toyota Corolla 6 Audi A4 5 BMW X5 2 Toyota Corolla 5 BMW X5 2 Toyota Corolla 6 Audi A4 5 BMW X5 7 Toyota Corolla 7 Toyota Corolla 8 SMW X5 8 SMW X5 9 Toyota Corolla 9 SMW X5	1 Honda Civic Sedan 8 Nissan Altima Sedan 2 Toyota Corolla Hatchback 3 Ford Explorer SUV 7 Mercedes C-Class Coupe 2 Toyota Corolla Hatchback 4 Chevrolet Camaro Coupe 8 Nissan Altima Sedan 7 Mercedes C-Class Coupe 1 Honda Civic Sedan 3 Ford Explorer SUV 5 BMW X5 SUV 1 Honda Civic Sedan 5 BMW X5 SUV 2 Toyota Corolla Hatchback 6 Audi A4 Sedan 5 BMW X5 SUV 2 Toyota Corolla Hatchback 6 Audi A4 Sedan 5 BMW X5 SUV 7 Toyota Corolla Hatchback 8 BMW X5 SUV 9 Toyota Corolla Hatchback 9 BMW X5 SUV

```
-- Q5. What is the total revenue generated by each car type?
48
49
       SELECT c.*, CONCAT("$", count(s.car_id) * c.cost_$) AS Total_revenue_generated
50 •
51
       FROM
52
           sales s
           LEFT JOIN cars c
53
           ON s.car_id = c.car_id
54
55
       GROUP BY
           s.car_id;
56
```

Re	esult Grid	***	Filter Rows:		E	xport: Wrap Cell Content:	<u>‡A</u>
	car_id	make	type	style	cost_\$	Total_revenue_generated	
	1	Honda	Civic	Sedan	30000	\$90000	
	2	Toyota	Corolla	Hatchback	25000	\$100000	
	3	Ford	Explorer	SUV	40000	\$80000	
	4	Chevrolet	Camaro	Coupe	36000	\$72000	
	5	BMW	X5	SUV	55000	\$220000	
	6	Audi	A4	Sedan	48000	\$48000	
	7	Mercedes	C-Class	Coupe	60000	\$120000	
	8	Nissan	Altima	Sedan	26000	\$52000	
4							

```
58
        -- Q6. What are the details of the cars sold in the year 2021 by salesperson 'Emily Wong'?
59
        SELECT c.*
60 •
61
        FROM
62
            sales s
63
            JOIN cars c
64
            ON s.car id = c.car id
65
            JOIN salespersons sp
66
            ON s.salesman id = sp.salesman id
67
        WHERE
68
            sp.name = "Emily Wong"
69
            AND YEAR(s.purchase date) = 2021;
70
esult Grid 🔢 💎 Filter Rows:
                                           Export: Wrap Cell Content: IA
  car id
         make
                           style
                                     cost_$
                   type
                          Hatchback
 2
        Toyota
                  Corolla
                                     25000
 4
        Chevrolet
                                     36000
                  Camaro
                          Coupe
```

```
-- Q7. What is the total revenue generated by the sales of hatchback cars?
71
72
       SELECT CONCAT("$", (count(s.car_id) * c.cost_$)) AS Total_revenue_from_hatchback
73 •
74
        FROM
           sales s
75
76
           JOIN cars c
77
           ON s.car id = c.car id
78
       WHERE
79
           c.style = "Hatchback"
80
        GROUP BY
           s.car id;
81
Export: Wrap Cell Content: TA
  Total_revenue_from_hatchback
```

\$100000

```
-- Q8. What is the total revenue generated by the sales of SUV cars in the year 2022?
 83
 84
 85 •
        SELECT c.style
             , YEAR(s.purchase_date) AS year
 86
 87
             , CONCAT("$", SUM(c.cost_$)) AS Total_revenue_from_SUV_in_2022
 88
        FROM
             sales s
 89
 90
             JOIN cars c
 91
             ON s.car id = c.car id
92
        WHERE
 93
             c.style = "SUV"
 94
             AND YEAR(s.purchase date) = 2022
95
        GROUP BY
             c.style
 96
             , YEAR(s.purchase date);
 97
Result Grid
                                           Export: Wrap Cell Content: TA
              Filter Rows:
   style
               Total_revenue_from_SUV_in_2022
         year
  SUV
        2022
               $150000
```

```
-- Q9. What is the name and city of the salesperson who sold the most number of cars in the year 2023?
 99
100
         SELECT s.salesman id, sp.name, sp.city, COUNT(s.sale id) AS Count of cars sold
101 •
102
         FROM
103
             sales s
104
             JOIN salespersons sp
105
             ON s.salesman id = sp.salesman id
106
         WHERE
107
             YEAR(s.purchase date) = 2023
108
         GROUP BY
109
             s.salesman id
110
             , sp.name
111
             , sp.city
112
         ORDER BY
            COUNT(s.sale id) DESC
113
114
         LIMIT 1;
                                                                                     0
Result Grid
                                          Export: Wrap Cell Content: IA
             Filter Rows:
                                                                       Fetch rows:
   salesman id
                              Count_of_cars_sold
                       city
              name
              Tom Lee
                      Seattle
```

```
-- Q10. What is the name and age of the salesperson who generated the highest revenue in the year 2022?
116
117
         SELECT s.salesman id
118 •
119
             , sp.name
             , sp.city
120
             , SUM(c.cost $) AS Highest revenue generated
121
122
         FROM
123
             sales s
124
             JOIN salespersons sp
125
             ON s.salesman id = sp.salesman id
126
             JOIN cars c
127
             ON s.car id = c.car id
         WHERE
128
             YEAR(s.purchase date) = 2022
129
         GROUP BY
130
             s.salesman id
131
132
             , sp.name
133
             , sp.city
134
         ORDER BY
             SUM(c.cost $) DESC
135
136
         LIMIT 1;
                                                                                      4
                                           Export: Wrap Cell Content: ‡A
Result Grid
              Filter Rows:
                                                                         Fetch rows:
                                  Highest_revenue_generated
   salesman_id
                         city
              name
              Emily Wong
                        San Fran
                                  116000
```