

# Tables

Here are the tables you will be using

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	2022-02-10
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

1. What are the details of all cars purchased in the year 2022?
2. What is the total number of cars sold by each salesperson?
3. What is the total revenue generated by each salesperson?
4. What are the details of the cars sold by each salesperson?
5. What is the total revenue generated by each car type?
6. What are the details of the cars sold in the year 2021 by salesperson 'Emily Wong'?
7. What is the total revenue generated by the sales of hatchback cars?
8. What is the total revenue generated by the sales of SUV cars in the year 2022?
9. What is the name and city of the salesperson who sold the most number of cars in the year 2023?
10. What is the name and age of the salesperson who generated the highest revenue in the year 2022?

```

75
76 • select c.car_id ,make, type, cost_, year(purchase_date) as purchase_year
77 from cars c
78 join sales s
79 on c.car_id = s.car_id
80 where year(purchase_date) = 2022

```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:

	car_id	make	type	cost_	purchase_year
▶	1	Honda	Civic	30000	2022
	1	Honda	Civic	30000	2022
	2	Toyota	Corolla	25000	2022
	3	Ford	Explorer	40000	2022
	5	BMW	X5	55000	2022
	5	BMW	X5	55000	2022
	7	Mercedes	C-Class	60000	2022
	8	Nissan	Altima	26000	2022

Result 7 ×

```

82  -- 2 What is the total number of cars sold by each salesperson?
83
84  •  select name as salesperson, count(car_id) as total_cars_sold
85     from salespersons sp
86     join sales s
87     on sp.salesman_id = s.salesman_id
88     group by name ;
89

```

Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

	salesperson	total_cars_sold
▶	John Smith	5
	Emily Wong	5
	Tom Lee	6
	Lucy Chen	4

```
90  -- 3 What is the total revenue generated by each salesperson?
```

```
91  |
```

```
92  • select name , sum(cost_)
```

```
93  from cars c
```

```
94  join sales s
```

```
95  on c.car_id = s.car_id
```

```
96  join salespersons sp
```

```
97  on s.salesman_id=sp.salesman_id
```

```
98  group by name
```

```
99
```

<

Result Grid



Filter Rows:

Export:



Wrap Cell Content:

	name	sum(cost_)
▶	John Smith	181000
	Emily Wong	177000
	Tom Lee	253000
	Lucy Chen	171000

```

100  -- 4 What are the details of the cars sold by each salesperson?
101
102  •  select s.salesman_id,c.car_id,make,type,style,cost_ ,name as sold_by
103      from cars c
104      join sales s
105      on c.car_id = s.car_id
106      join salespersons sp
107      on s.sale_id =s.sale_id;
108
109

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	salesman_id	car_id	make	type	style	cost_	sold_by
▶	1	1	Honda	Civic	Sedan	30000	Lucy Chen
	1	1	Honda	Civic	Sedan	30000	Tom Lee
	1	1	Honda	Civic	Sedan	30000	Emily Wong
	1	1	Honda	Civic	Sedan	30000	John Smith
	3	3	Ford	Explorer	SUV	40000	Lucy Chen
	3	3	Ford	Explorer	SUV	40000	Tom Lee
	3	3	Ford	Explorer	SUV	40000	Emily Wong
	3	3	Ford	Explorer	SUV	40000	John Smith
	2	2	Toyota	Corolla	Hatchback	25000	Lucy Chen

Result 13 x

```

109 -- 5 What is the total revenue generated by each car type?
110
111 • select type ,sum(cost_)
112 from cars c
113 join sales s using (car_id)
114 group by type
115 order by 2 desc
116

```

<
 
 Filter Rows: 
 Export: 
 Wrap Cell Content: 

	type	sum(cost_)
▶	X5	220000
	C-Class	120000
	Corolla	100000
	Civic	90000
	Explorer	80000
	Camaro	72000
	Altima	52000
	A4	48000

```

117 -- 6 What are the details of the cars sold in the year 2021 by salesperson 'Emily Wong'?
118
119 • select c.car_id,make,type,style,cost_ ,name ,year(purchase_date)
120 from cars c
121 join sales s using (car_id)
122 join salespersons sp
123 using (salesman_id)
124 where name = 'Emily Wong' and year(purchase_date) = 2021
125
126

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	car_id	make	type	style	cost_	name	year(purchase_date)
▶	2	Toyota	Corolla	Hatchback	25000	Emily Wong	2021
	4	Chevrolet	Camaro	Coupe	36000	Emily Wong	2021

Result 18 x



```
126 -- 7 What is the total revenue generated by the sales of hatchback cars?
127 • select STYLE ,sum(cost_) AS TOTAL_REVENUE
128 from cars c
129 join sales s
130 using ( car_id )
131 where STYLE = 'Hatchback'
132 group by 1
133 |
134
```

< **Result Grid**   Filter Rows:  Export:  Wrap Cell Content: 

	STYLE	TOTAL_REVENUE
▶	Hatchback	100000

```
134 -- 8 . What is the total revenue generated by the sales of SUV cars in the year 2022?
135
136 • select STYLE ,sum(cost_) AS TOTAL_REVENUE
137 from cars c
138 join sales s
139 using ( car_id )
140 where STYLE = 'SUV' AND year(purchase_date) = 2022
141 group by 1
142
```

< Result Grid



Filter Rows:

Export:



Wrap Cell Content: [IA](#)

	STYLE	TOTAL_REVENUE
▶	SUV	150000

```
143 -- 9 What is the name and city of the salesperson who sold the most number of cars in the year 2023?
144
145 • select name ,city, count(s.car_id) as total_cars_sold
146     from salespersons sp
147  join sales s
148  using (salesman_id)
149  where year(purchase_date) = '2023'
150  group by 1,2
151  order by 3 desc
152  limit 1
```

Result Grid   Filter Rows:  Export:  Wrap Cell Content:  Fetch rows: 

	name	city	total_cars_sold
▶	Tom Lee	Seattle	2

```

154 -- 10 What is the name and age of the salesperson who generated the highest revenue in the year 2022?
155
156 • select name,age ,sum(cost_) as revenue_generated
157 from salespersons sp
158 join sales s
159 using (salesman_id)
160 join cars c
161 using (car_id)
162 where year(purchase_date) = 2022
163 group by name, age
164 order by 3 desc
165 limit 1
166

```


 Filter Rows: 
 Export:  Wrap Cell Content:  Fetch rows:

	name	age	revenue_generated
▶	Emily Wong	35	116000