

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

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Database Structure Edit Pragma Browse Data Execute SQL

Q1.1.sql Q1.2.sql

```
1 SELECT
2     sales.purchase_date,
3     cars.*
4
5 FROM sales
6 INNER JOIN cars ON
7     sales.car_id = cars.car_id
8
9 WHERE
10    strftime('%Y', sales.purchase_date) = '2022'
```

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

Execution finished without errors.

UTF-8

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

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Database Structure Edit Pragma Browse Data Execute SQL

Qs.1.sql Qs.2.sql

```
1 SELECT
2   salespersons.name,
3   COUNT(sales.sale_id) AS total_cars_sold
4
5 FROM sales
6 INNER JOIN salespersons ON
7   sales.salesman_id = salespersons.salesman_id
8
9 GROUP BY
10  salespersons.name
11 ORDER BY
12  total_cars_sold DESC
```

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

Execution finished without errors.

UTF-8

QUESTION 3: WHAT IS THE TOTAL REVENUE GENERATED BY EACH SALESPERSON?

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Database Structure Edit Pragma Browse Data Execute SQL

Qs.1.sql Qs.2.sql Qs.3

```
1 SELECT
2     salespersons.name AS Name,
3     SUM(cars.cost_0) AS Total_Revenue
4
5 FROM sales
6 INNER JOIN salespersons
7 INNER JOIN cars ON
8     sales.salesman_id = salespersons.salesman_id AND
9     sales.car_id = cars.car_id
10
11 GROUP BY
12     salespersons.name
13 ORDER BY
14     Total_Revenue DESC
```

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

Execution finished without errors.
Results: 4 rows returned in 5ms
At line 1.

UTF-8

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

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Database Structure Edit Pragma Browse Data Execute SQL

Qs.1.sql Qs.2.sql Qs.3.sql Qs.4

```
1 SELECT
2   salespersons.name AS Name,
3   cars.*
4
5 FROM sales
6 INNER JOIN salespersons
7 INNER JOIN cars ON
8   sales.salesman_id = salespersons.salesman_id AND
9   sales.car_id = cars.car_id
10
11 ORDER BY
12   Name DESC;
```

	Name	car_id	make	type	style	cost_\$
1	Tom Lee	3	Ford	Explorer	SUV	40000
2	Tom Lee	5	BMW	X5	SUV	55000
3	Tom Lee	1	Honda	Civic	Sedan	30000
4	Tom Lee	5	BMW	X5	SUV	55000
5	Tom Lee	2	Toyota	Corolla	Hatchback	25000
6	Tom Lee	6	Audi	A4	Sedan	48000
7	Lucy Chen	5	BMW	X5	SUV	55000
8	Lucy Chen	2	Toyota	Corolla	Hatchback	25000
9	Lucy Chen	5	BMW	X5	SUV	55000
10	Lucy Chen	4	Chevrolet	Camaro	Coupe	36000
11	John Smith	1	Honda	Civic	Sedan	30000
12	John Smith	8	Nissan	Altima	Sedan	26000
13	John Smith	2	Toyota	Corolla	Hatchback	25000
14	John Smith	3	Ford	Explorer	SUV	40000
15	John Smith	7	Mercedes	C-Class	Coupe	60000
16	Emily Wong	2	Toyota	Corolla	Hatchback	25000
17	Emily Wong	4	Chevrolet	Camaro	Coupe	36000
18	Emily Wong	8	Nissan	Altima	Sedan	26000
19	Emily Wong	7	Mercedes	C-Class	Coupe	60000

Execution finished without errors.
Result: 20 rows returned in 6ms

UTF-8

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

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Database Structure Edit Pragma Browse Data Execute SQL

Qs.1.sql Qs.2.sql Qs.3.sql Qs.4.sql Qs.5

```
1 SELECT
2   cars.type AS Types,
3   COUNT(sales.sale_id) AS Cars_Sold,
4   SUM(cars.cost_c) AS Total_Revenue
5
6 FROM sales
7 INNER JOIN cars ON
8   sales.car_id = cars.car_id
9
10 GROUP BY
11   cars.type
12 ORDER BY
13   Total_Revenue DESC
```

	Types	Cars_Sold	Total_Revenue
1	XS	4	220000
2	C-Class	2	120000
3	Corolla	4	100000
4	Civic	3	90000
5	Explorer	2	80000
6	Camaro	2	72000
7	Altima	2	52000
8	A4	1	48000

Execution finished without errors.
Result: 8 rows returned in 5ms
At line 13

UTF-8

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

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Database Structure Edit Pragma Browse Data Execute SQL

Q6.1.sql Q6.2.sql Q6.3.sql Q6.4.sql Q6.5.sql Q6.6.sql

```
1 SELECT
2     salespersons.name AS Name,
3     sales.purchase_date AS Purchase_Date,
4     cars.*
5
6 FROM sales
7 INNER JOIN salespersons
8 INNER JOIN cars ON
9     sales.saleman_id = salespersons.saleman_id AND
10    sales.car_id = cars.car_id
11
12 WHERE
13     strftime('%Y', Purchase_Date) = '2021' AND
14     Name = 'Emily Wong'
15
16 ORDER BY
17     Purchase_Date DESC
18
19
20
```

	Name	Purchase_Date	car_id	make	type	style	cost_\$
1	Emily Wong	2021-06-07	4	Chevrolet	Camaro	Coupe	36000
2	Emily Wong	2021-02-10	2	Toyota	Corolla	Hatchback	25000

Execution finished without errors.
Result: 2 rows returned in 6ms
At line 1:

UTF-8

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

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Database Structure Edit Pragma Browse Data Execute SQL

Qs.1.sql Qs.2.sql Qs.3.sql Qs.4.sql Qs.5.sql Qs.6.sql Qs.7.sql

```
1 SELECT
2   cars.style AS Style,
3   SUM(cars.cost_g) AS Total_Revenue
4
5 FROM sales
6 INNER JOIN cars ON
7   sales.car_id = cars.car_id
8
9 WHERE
10   Style = 'Hatchback'
11
12 ORDER BY
13   Total_Revenue DESC
14
```

	Style	Total_Revenue
1	Hatchback	100000

Execution finished without errors.
Results: 1 rows returned in 2ms
At line 1:

UTF-8

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

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Database Structure Edit Pragma Browse Data Execute SQL

Qs.1.sql Qs.2.sql Qs.3.sql Qs.4.sql Qs.5.sql Qs.6.sql Qs.7.sql Qs.8.sql

```
1 SELECT
2     cars.style AS Style,
3     strftime('%Y', sales.purchase_date) AS Purchase_Year,
4     SUM(cars.cost_s) AS Totla_Revenue
5
6 FROM sales
7 INNER JOIN cars ON
8     sales.car_id = cars.car_id
9
10 WHERE
11     strftime('%Y', sales.purchase_date) = '2022' AND
12     Style = 'SUV'
13
14 ORDER BY
15     Style DESC
```

	Style	Purchase_Year	Totla_Revenue
1	SUV	2022	150000

Execution finished without errors.
Result: 1 rows returned in 17ms
At line 1.

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

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Database Structure Edit Pragma Browse Data Execute SQL

Q6.9.sql SQL 2

```
1 SELECT
2     salespersons.name AS Name,
3     salespersons.city AS City,
4     COUNT(sales.car_id) AS Total_Cars_Sold,
5     strftime('%Y', sales.purchase_date) AS Year
6
7 FROM sales
8 INNER JOIN salespersons ON
9     sales.saleman_id = salespersons.saleman_id
10
11 WHERE
12     Year = '2023'
13
14 GROUP BY
15     Name, City
16 ORDER BY
17     Total_Cars_Sold DESC
```

	Name	City	Total_Cars_Sold	Year
1	Tom Lee	Seattle	2	2023
2	John Smith	New York	1	2023
3	Lucy Chen	LA	1	2023

Execution finished without errors.
Result: 3 rows returned in 0ms.
At line 1:

UTF-8

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

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Database Structure Edit Pragma Browse Data Execute SQL

```
1 SELECT
2     salespersons.name AS Name,
3     salespersons.age AS Age,
4     SUM(cars.cost_5) AS Total_Revenue,
5     strftime('%Y', sales.purchase_date) AS Year
6
7 FROM sales
8 INNER JOIN cars
9 INNER JOIN salespersons ON
10    sales.car_id = cars.car_id AND
11    sales.salesman_id = salespersons.salesman_id
12
13 WHERE
14     Year = '2022'
15
16 GROUP BY
17     Name, Age
18 ORDER BY
19     Total_Revenue DESC
```

	Name	Age	Total_Revenue	Year
1	Emily Wong	35	116000	2022
2	Tom Lee	42	85000	2022
3	Lucy Chen	31	80000	2022
4	John Smith	28	40000	2022

Execution finished without errors.
Results: 4 rows returned in 4ms
At line 1:

UTF-8