

SQL Agent

This app allows you to interact with an SQL database using a generative AI agent.

Powered by watsonx.ai.

User query

What is the total sales revenue for the top 5 performing dealerships in the year 2022?

Invoke

User Message:

What **is** the total sales revenue **for** the top **5** performing dealerships **in** the year **2**

AI Response:

Tool Name: sql_db_list_tables

Arguments: {'tool_input': ''}

Tool Response:

Cars, Dealerships, Sales

AI Response:

Tool Name: sql_db_schema

Arguments: {'table_names': 'Cars, Dealerships, Sales'}

Tool Response:

```
CREATE TABLE "Cars" (  
    id INTEGER,  
    make TEXT NOT NULL,  
    model TEXT NOT NULL,  
    year INTEGER NOT NULL,  
    color TEXT NOT NULL,  
    PRIMARY KEY (id)  
)  
  
/*  
3 rows from Cars table:  
id      make   model  year  color  
1      Toyota Camry  2020  Blue  
2      Honda  Civic   2019  Red  
3      Ford   Mustang 2021  Black  
*/  
  
CREATE TABLE "Dealerships" (  
    id INTEGER,
```

```
name TEXT NOT NULL,
location TEXT NOT NULL,
PRIMARY KEY (id)
)

/*
3 rows from Dealerships table:
id      name      location
1       Dealership A   New York
2       Dealership B   Los Angeles
3       Dealership C   Chicago
*/

CREATE TABLE "Sales" (
    id INTEGER,
    car_id INTEGER NOT NULL,
    dealership_id INTEGER NOT NULL,
    sale_date DATE NOT NULL,
    sale_price REAL NOT NULL,
    PRIMARY KEY (id),
    FOREIGN KEY(dealership_id) REFERENCES "Dealerships" (id),
    FOREIGN KEY(car_id) REFERENCES "Cars" (id)
)

/*
3 rows from Sales table:
id      car_id  dealership_id  sale_date      sale_price
1       1       1             2022-01-01     25000.0
2       2       2             2022-02-01     20000.0
3       3       3             2022-03-01     30000.0
*/
```

AI Response:

Tool Name: sql_db_query_checker

Arguments: {'query': "SELECT Dealerships.name, SUM(sale_price) AS total_revenue\r\nFROM Sales\r\nJOIN Dealerships on Sales.dealership_id = Dealerships.id\r\nWHERE sale_date BETWEEN '2022-01-01' AND '2022-12-31'\r\nGROUP BY Dealerships.id\r\nORDER BY total_revenue DESC LIMIT 5;\r\n"}

Tool Response:

```
The original query looks correct and doesn't have any of the common mistakes menti

```sql
SELECT Dealerships.name, SUM(sale_price) AS total_revenue
FROM Sales
JOIN Dealerships on Sales.dealership_id = Dealerships.id
WHERE sale_date BETWEEN '2022-01-01' AND '2022-12-31'
GROUP BY Dealerships.id
ORDER BY total_revenue DESC LIMIT 5;
```
```

AI Response:

Tool Name: sql_db_query

Arguments: {'query': "SELECT Dealerships.name, SUM(sale_price) AS total_revenue\r\nFROM Sales\r\nJOIN Dealerships on Sales.dealership_id = Dealerships.id\r\nWHERE sale_date BETWEEN '2022-01-01' AND '2022-12-31'\r\nGROUP BY Dealerships.id\r\nORDER BY total_revenue DESC LIMIT 5;\r\n"}

Tool Response:

```
[('Dealership A', 65000.0), ('Dealership B', 48000.0), ('Dealership J', 38000.0),
```

AI Response:

The top 5 performing dealerships in terms of total sales revenue for the year 2022

1. Dealership A with a total revenue of \$65,000.
2. Dealership B with a total revenue of \$48,000.
3. Dealership J with a total revenue of \$38,000.
4. Dealership G with a total revenue of \$35,000.
5. Dealership H with a total revenue of \$32,000.

✓ Success

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