Project Title:

Build an Al Agent to Answer E-commerce Data Questions

Datasets Provided

You will be given the following datasets:

- Product-Level Ad Sales and Metrics
- Product-Level Total Sales and Metrics
- Product-Level Eligibility Table

Objective

Your task is to build an Al agent that can:

- Answer any question related to the data provided.
- Receive questions via API endpoints, query the data, and respond with accurate answers.
- Bonus: If possible, visualize the results and provide streamed responses (like live typing effect).

Steps to Follow

1. Convert the datasets into SQL tables.

3. Write a codebase that connects:

0	The LLM,
0	The SQL tables,
0	And the API endpoints to receive and respond to questions.
4. Imple	ment logic so the Al agent can:
0	Understand the question,
0	Convert it into an SQL query,
0	Fetch the answer from the database,
0	And return it in a human-readable format.
5. (Bonus) Add:	
0	Graphs/visuals for certain queries,
0	Event streaming responses to simulate real-time interaction.

2. **Choose an LLM (Large Language Model)** that can run locally (downloadable and usable without internet).

Final Deliverables

- The complete **codebase** should be in the github and share the github link in the form.
- A **separate demo video** answering these example questions (recording must contain both the API call made and the output from terminal) Upload in a drive and share it.
 - 1. What is my total sales?
 - 2. Calculate the RoAS (Return on Ad Spend).
 - 3. Which product had the highest CPC (Cost Per Click)?

Tips for Success

- Focus on structuring the data correctly in SQL.
- For LLM you can do any of the following:
 - Select an efficient, local LLM.
 - Use an already available free LLM API like Gemini 2.5 by google https://aistudio.google.com/apikey
- Make sure your system is modular: the LLM should translate the user's question to SQL, query the database, and send back a clean response.

Dataset:	
 Product-Level Eligibility Table (mapped) Product-Level Ad Sales and Metrics (mapped) 	
3. Product-Level Total Sales and Metrics (mapped)	
Submission Form:	
https://forms.gle/QoDr7LUVvV47Pq2QA	
Contact:	
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• Add optional support for charts using libraries like **Matplotlib** or **Plotly** for bonus points.