Commands Document:

SELECT name FROM employees WHERE salary > 50000

Show names of employees in HR

API API KEY OPEN AI:

3Mudo9Hv8vmwLzs2UvQMb4fPBbkewT5q

```
DEEPINFRA_API_KEY=3Mudo9Hv8vmwLzs2UvQMb4fPBbkewT5q
                   cxCyZHFUFCWryiCZlzfW3PitHXakdumc


```

Front end: npm run dev

Backend: uvicorn main:app --reload

```
git add .
git commit -m " Deploy Frontend on Vercel/ Deploy Backend on Render /Start GitHub repo cleanup/prep for both"
git push origin main
```

git commit -m "✅ Injected DB schema into LLM prompt for accurate SQL, cleaned up backend"

1. 📂 File Upload Improvements
- Allow `.csv`, `.xlsx`, `.txt` alongside `.db`
- Auto-convert to `.db` where needed (e.g. CSV → SQLite)
- Show table preview after upload

2. 🧠 Session-based Upload Management
- Remember which user uploaded what
- Avoid collisions in multi-user mode (e.g. naming: `uploads/session123.db`)

3. 🌐 Frontend Enhancements
- Loading spinner on query execution
- Show schema preview in UI
- Auto-scroll to results
- Dark mode toggle 😎

4. ☁️ Deploy to Web (Optional but fun!)
- Deploy backend on **Render.com**

- Deploy frontend on **Vercel** or **Netlify**
- Get a public link to demo!

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5. 🔁 Query History Persistence
- Save history to browser (localStorage) or a file
- Allow copy/paste/edit/resubmit old queries

✅ What You've Already NAILED 💯

🔧 `main.py` Highlights:
- ✅ Supports multi-format uploads (CSV, Excel, TXT, SQLite)
- ✅ Converts non-SQLite formats into SQLite
- ✅ Uploads are uniquely saved and stored
- ✅ Dynamically extracts DB schema for prompt context
- ✅ Sends enriched prompt to DeepInfra API (LLaMA-3)
- ✅ Parses and cleans LLM output
- ✅ Runs SQL query and returns results ✅
- ✅ Handles errors gracefully with informative messages
- ✅ Starts Uvicorn server with proper FastAPI setup

🧠 `download_model.py`:
- ✅ Correctly downloads `Salesforce/codet5-base` locally to `./models/codet5` — no issues.