

# DB GUIvolution

Transforming DBMS for Humans

# SQL Databases made easy.

Drag-and-drop interface  
&  
Natural language model



SQL query creation without  
knowing SQL syntax!





**GUI-Based Query Interface:**  
Visual SQL query construction

**Query Validation:**  
Verify query validity

**GUI-Based Query Result Interface:**  
User-friendly query result  
presentation



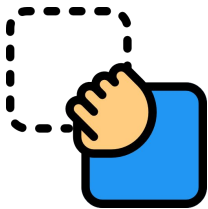
### **NLP for Querying:**

Visual SQL query construction

### **SQL Flavor Support:**

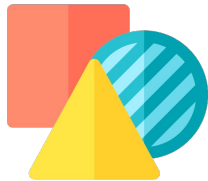
Accommodate various SQL database systems

# User Interface



## **Intuitive Drag-and-Drop:**

Simplifies query construction, eliminating the need for deep SQL knowledge.



## **User-Friendly Visual Elements:**

Clear shapes representing SQL keywords for easy understanding.



## **Real-Time Feedback:**

Instantly identifies and highlights errors or issues during query building.

# User Interface



## **Customization:**

Personalize color schemes and layouts for an enhanced experience.



## **Accessibility:**

Adheres to accessibility standards, including keyboard navigation and voice interpreter support.



## **User Assistance:**

In-interface tutorials and tooltips help users become proficient in query construction and advanced features.

# Performance



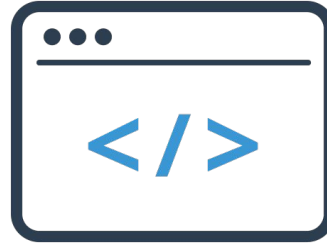
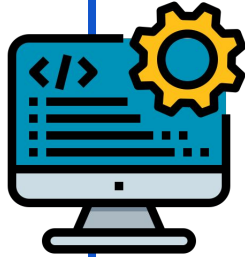
**Query Execution Speed:** Swift query processing, including large datasets, through query optimization and indexing.

**Scalability:** Efficiently accommodates growing workloads and database sizes.

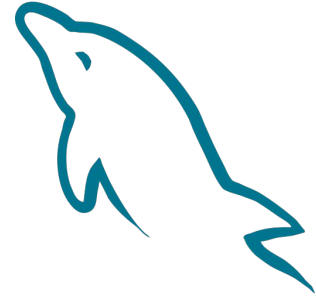
**Resource Efficiency:** Minimized memory and CPU usage for smooth system operation.

**Real-Time Updates:** Near-instant updates for real-time data applications, minimizing lag.

# System & Security



Platform:  
WebApp



Database:  
MySQL



**User Data Isolation:** Ensuring that each user's data and queries remain confidential and separate from other users' information.



# Teamwork Division



GUI-Based Query Interface: **Li**.

GUI-Based Query Results Interface: **Li** / **Theo**.

Query Validation: **Theo**.

Natural Language Processing: **Sean**.

SQL Flavor Support: **Sean**.