Database Evaluation

# Features and Importances

Ease of Use: Importance level 4

Cost: Importance level 5

Portability: Importance level 1

Cross-Platform Compatibility: Importance level 2

Python Compatibility: Importance level 3

# Database Evaluation

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Features** | **MSSQL** | **Oracle** | **SQLite** | **MySQL** | **PostgreSQL** | **Microsoft Access** | **LibreOffice Base** |
| Ease of Use  4 | 2(4) | 2(4) | 5(4) | 3(4) | 3(4) | 4(4) | 4(4) |
| Low Cost  5 | 1(5) | 1(5) | 5(5) | 4(5) | 4(5) | 2(5) | 3(5) |
| Portability  1 | 1(1) | 1(1) | 5(1) | 3(1) | 3(1) | 4(1) | 4(1) |
| Cross-Platform Compatibility  2 | 3(2) | 3(2) | 5(2) | 5(2) | 5(2) | 2(2) | 3(2) |
| Python Compatibility  3 | 4(3) | 4(3) | 5(3) | 5(3) | 5(3) | 3(3) | 3(3) |
| Total | 32 | 32 | 75 | 60 | 60 | 43 | 50 |

# Recommendation

Based on the evaluation, SQLite scores the highest with a total of 75 points, meeting all the key criteria with high marks, especially in ease of setup and use, cost, and portability, which are critical for the project's feasibility phase. SQLite's lightweight nature, requiring no setup or special server, makes it ideal for a simple, fast solution that can easily be backed up to a USB stick. It's also free, cross-platform, and well-supported in Python, aligning perfectly with the project requirements.