**DATABASE OPTIONS**

Make a list of features (criteria) that are important to your boss for this phase of the project. Rank how important each criterion is, where 1 is not very important, and 5 is very important. Show your criteria and the rank you assigned each one.

Evaluate the following databases against your criteria:

MSSQL, Oracle, SQLite, MySQL (or MariaDB), PostgreSQL, Microsoft Access, LibreOffice Base

Rate each database against the criteria, where 0 means it doesn’t meet the criteria at all, and 5 meets the criteria extremely well. Show your rating for each database, against each criterion.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Features  Rank 1-5 | MSSQL  Rate 0-5 | Oracle  Rate 0-5 | SQLite  Rate 0-5 | MySQL (or MariaDB  Rate 0-5 | PostgreSQL  Rate 0-5 | Microsoft Access  Rate 0-5 | LibreOffice Base  Rate 0-5 |
| Easy to setup (4) | 2\*4=8 | 2\*4=8 | 4\*4=16 | 4\*4=16 | 4\*4=16 | 5\*4=20 | 5\*4=20 |
| Minimal hardware/software requirements (4) | 2\*4=8 | 2\*4=8 | 4\*4=16 | 4\*4=16 | 4\*4=16 | 5\*4=20 | 5\*4=20 |
| Speed and performance (4) | 4\*4=16 | 4\*4=16 | 5\*4=20 | 4\*4=16 | 5\*4=20 | 3\*4=12 | 4\*4=16 |
| Cross-platform compatibility (5) | 1\*5=5 | 1\*5=5 | 4\*5=20 | 3\*5=15 | 4\*5=20 | 2\*5=10 | 4\*5=20 |
| Single user access support (5) | 4\*5=20 | 4\*5=20 | 5\*5=25 | 5\*5=25 | 5\*5=25 | 5\*5=25 | 5\*5=25 |
| Easy backup and portability (4) | 3\*4=12 | 2\*4=8 | 5\*4=20 | 5\*4=20 | 5\*4=20 | 3\*4=12 | 3\*4=12 |
| Cost-effectiveness (5) | 2\*5=10 | 2\*5=10 | 4\*5=20 | 5\*5=25 | 5\*5=25 | 5\*5=25 | 5\*5=25 |
| Python compatibility (5) | 3\*5=15 | 3\*5=15 | 5\*5=25 | 4\*5=20 | 5\*5=25 | 1\*5=5 | 1\*5=5 |
| **TOTAL** | **94** | **90** | **162** | **153** | **167** | **129** | **143** |

Multiply your numbers and add them up, just like the class example. Find which database should work the best for this phase of the project and state your findings.

According to the analysis carried out by comparing different databases based on the criterion, **PostgreSQL** happens to be the best database option to be used for this project.