**DATABASE SELECTION FOR A COMPANY**

**PERFORMANCE**: In the sense that it is simple and easy to use, efficiently handles and process data to meet the requirements of users.

**CROSS PLATFORM**: In the sense that it can run on many platforms and do not require significant modifications. Also checking compatibility with Python

**CONCURRENCY**: In the sense that multiple users can access the database at once. [only one user will be accessing it]

**REPLICATION**: In the sense that it can be copied and maintained to improve its availability and performance.

**COST**: In the sense that is free and ready to use.

**EACH DATABASE RATING IS MUTIPLIED BY THE RANKS**

SQLITE has the highest point and from the experience I have with the database, it is fast and easy to connect with, and it is also very compactible with python, works on many platforms and lightweight with great performance.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **RANK** | FEATURES | MSSQL | ORACLE | SQLITE | MYSQL | POSTGRESQL | MICROSOFT ACCESS | LIBREOFFICE BAsE |
| 1 | CONCURRENCY | 4 \* 1 = 4 | 5\* 1=5 | 5\* 1=5 | 4 \* 1=4 | 5\* 1=5 | 1\* 1=1 | 1\* 1=1 |
| 3 | EASY FIREWALL | 1\*3 = 3 | 5\* 3=15 | 4\* 3=12 | 5\* 3=15 | 5\* 3=15 | 1\* 3=3 | 1\* 3=3 |
| 4 | PERFORMANCE | 3\*4 = 12 | 4\* 4=16 | 5\* 4=20 | 4\* 4=16 | 5\* 4=20 | 3\* 4=12 | 3\* 4=12 |
| 3 | REPLICATION | 3\*3 = 9 | 4\* 3=12 | 5\* 3=15 | 3\* 3=9 | 4\* 3=12 | 2\* 3=6 | 1\* 3=3 |
| 5 | CROSS PLATFORM | 4 \* 5 =20 | 4\* 5=20 | 5\* 5=25 | 4\* 5=20 | 5\* 5=20 | 2\* 5=10 | 4\* 5=20 |
| 5 | LOW COST | 1\* 5=5 | 1\* 5=5 | 5\* 5=25 | 4\* 5=20 | 4\* 5=20 | 1\* 5=5 | 5\* 5=25 |
|  | SUM | 53 | 73 | 102 | 84 | 97 | 37 | 64 |