**COMP – 2040**

**Topic Challenge: Module 6D – Understanding Database Options**

Evaluating the following databases against few criteria to know which database works the best for the phase of the project.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 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 Setup (4) | 2\***4** =8 | 1\***4**=4 | 5\***4**=20 | 4\***4**=16 | 4\***4**=16 | 5\***4**=20 | 5\***4**=20 |
| Cross Platform (1) | 2\***1**=2 | 2\***1**=2 | 5\***1**=5 | 4\***1**=4 | 4\***1**=4 | 3\***1**=3 | 3\***1**=3 |
| Only One-user Access (2) | 3\***2**=6 | 3\***2**=6 | 4\***2**=8 | 4\***2**=8 | 4\***2**=8 | 5\***2**=10 | 5\***2**=10 |
| Easy Backup (3) | 2\***3**=6 | 2\***3**=6 | 5\***3**=15 | 4\***3**=12 | 4\***3**=12 | 5\***3**=15 | 5\***3**=15 |
| Cost (5) | 1\***5**=5 | 1\***5**=5 | 5\***5**=25 | 5\***5**=25 | 5\***5**=25 | 3\***5**=15 | 3\***5**=15 |
| Compatibility with Python (5) | 4\***5**=20 | 4\***5**=20 | 5\***5**=25 | 5\***5**=25 | 5\***5**=25 | 3\***5**=15 | 3\***5**=15 |
| Total | **47** | **43** | **98** | **90** | **90** | **78** | **78** |

In conclusion, looking at the ratings, I can say that **SQLite** is the best fit for this phase of the project.