Recommendation on DBMS

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| **DBMS Name** | **Microsoft SQL Server** | **Oracle SQL Server** | **MySQL** | **SQLite** |
| **Scalability and performance** | * Analysis services, reporting services, and integration services * Scale out your database environment to optimize responsiveness | * Offers complete end-to-end development of your PL/SQL applications * A complete data modeling solution * A reports interface | * Can handle a lot of data and can be use “at scale” | * Up to 2TB of data storage * Easily movable database |
| **Price** | Free download available | Free download available | Free download available | Free download available |
| **Platform** | Single platform (only operable on windows platform) | Multiple platform | Cross-platform compatible | Cross-platform compatible |
| **Speed** | * Faster than previous version * Speed-ups can hit 100x for some types of queries * Real-time analytics | * A large 100GB table can be seamlessly partitioned at database level into range partitions | * Provide stable and consistent performance * Giving up some standard allows MySQL to work very efficiently and cut corners | * Quick PHP interface * In many cases, at least 2-3 times faster than MySQL/ PostgreSQL |
| **Security** | * 94 security vulnerabilities from Microsoft SQL Server’s security advisories | * 23 security vulnerabilities from Oracle software security advisories | * A lot of security features * Several security vulnerabilities detected by security vulnerability tracking site | * Each user has their own completely independent database * Several security vulnerabilities detected by security vulnerability tracking site |