To choose the best **DBMS** for your data repository, consider these factors:

**1️⃣ Data Type**

* **Structured (Relational)** → Use **SQL databases** (PostgreSQL, MySQL, SQL Server).
* **Unstructured/Semi-structured** → Use **NoSQL** (MongoDB, Cassandra, Elasticsearch).

**2️⃣ Data Repository Type**

* **Data Lake** → Hadoop, Amazon S3, Google Cloud Storage.
* **Data Warehouse** → Snowflake, Amazon Redshift, Google BigQuery.
* **Data Mart** → Same as a data warehouse but department-focused (e.g., Redshift, PostgreSQL).

**3️⃣ Scalability & Performance**

* **High volume & real-time analytics?** → NoSQL (Cassandra, Elasticsearch).
* **High-speed queries for BI?** → OLAP databases (Redshift, BigQuery).

**4️⃣ Budget & Cloud vs. On-Prem**

* **Cloud-based & scalable?** → AWS, GCP, Azure.
* **Self-hosted & cost-effective?** → PostgreSQL, MySQL, or MariaDB.