**Choosing the correct Database:**

**Bigquery:** *Your company wants to analyze terabytes of sales and customer data using SQL without managing infrastructure.*  
**Which GCP service allows you to run fast, interactive queries on large datasets and why is it preferred?**

**Memcache:** *Your application needs fast in-memory caching to reduce latency and improve performance for frequently accessed data.****Which GCP service should you use and how does it support caching?***

**Firestore:** *You are developing a mobile chat application that needs real-time data sync across devices and flexible, scalable NoSQL storage.*  
**Which GCP database service fits this requirement and why?**

**Bigdata:** *Your IoT platform collects millions of sensor readings per second and needs to analyze time-series data at high speed.*  
**Which GCP database should you choose and what makes it suitable for this workload?**

**SQL:** *Your application needs a fully managed relational database to store customer orders and payment details. You also want to use standard SQL queries with built-in backup and failover support.*  
**Which GCP database service should you choose and why?**

**Cloud spanner:** *You are building a global e-commerce platform that requires high availability, horizontal scalability, and strong consistency across regions.****Which GCP database is best suited for this use case and what features make it ideal?***

**Cloud storage:** *You’re building a lightweight web application with non-relational, hierarchical data and need seamless scalability.*  
**Which GCP database would you choose in Datastore mode and why?**