Utilizing Databases

Overtions	Notes
Questions	Notes
Database	 Databases allow us to collect, store, retrieve, sort, graph, and manipulate data. databases are necessary to presist data through runs of an application a database is an organized collection of various forms of data Databases are used by many apps, web, mobile, services and more you access the data stored in a database by querrying it Databases are typically controlled by a database management system
Amazon Relational database service (rds)	 Supports popular databases engines offers high availability and fault tolerance using Multi-AZ deployment option AWS manages the database with automatic software patching, automated backups, operating system maintenance, and more launch read replicas across regions in order to provide enhanced performance and durability includes: Amazon Aurora Mysql Oracle mariadb SQLserver Postgresql
Amazon Aurora	 supports MySQL and PostgreSQL database engines 5 faster than normal MYSQL and 3 faste than normal PostgreSQL scales automatically while providing durability and high avilability managd by rds supports: postgresSQL MySQL
DynamoDB	 is a fully managed NOSQL key-value and document database Fully managed and serverless non-relational scales automatically to massive workloads with fast performance
Amazon DocumentDB	 is fully managed document database that support MongoDB Document database Mongodb Compatiible Fully managed and serverless non-relational
Amazon ElastiCache	 is a fully managed in-memory datastore compatible with Redis or Memcached In-memory datastore compatible with Redis or Memcached engines data can be lost offers high performance and low latency
Amazon Neptune	 Graph database service supports highly connected datasets like social media networks fully managed and serveless fast and reliable
Databases in the real world	 Alleviate database load for data that's accessed often:ElastiCache Process large setes of user profiles and social interactions: Neptune Nosql database fast enough to handle millions of request per second: Dynamodb Operate MongoDB workloads at scale: DocumenDB

Résumé

- Rds: is only for relational databases.Don't forget the supported database engines:aurora, postgreSQL, MySQL, MariaDB, Oracle database, and sql server
- Aurora: only supports PostgreSQL and Mysql
- Neptune: Helps you to create social media graphs

• dynamoDB is NOSQL database

• Elasticache: an in-memory datastore

• DocumentDB: supports MongoDB