Section 17: Review of Storage Solutions

Cloud Storage
- -> unstructured data
- -> archive data
- -> temporary storage

Managed SQL Databases
- -> structured data
- -> Complex Queries
- -> Joins

  Options
  - -> Cloud SQL
    - -> One Region
    - -> up to 10 tb
  - -> Cloud Spanner
    - -> Global
    - -> Horizontally Scalable
    - -> expensive

. No SQL
- -> Flexible Schema
- -> No Joins

  Options
  - -> Datastore
    - -> Document / Json structure
    - -> Hierarchial
  - -> Bigtable
    - -> petabyte scale
    - -> wide - column
    - -> low latency
    - -> analytics

. Analytic Database
  Bigquery
- -> Data warehousing
- -> Petabyte Scale
- -> SQL queries
- -> Some Joins Support
- -> Not transactional

Exam Notes

* Object vs Persistent disk vs Managed Database

* Cloud Storage types
  1. Regional
  2. Multi - Regional
  3. Nearline   30
  4. Coldline   365
* Life cycle policies

* Gsutil for cloud storage

* persistent disks for VM
  L> Stay when vm shuts down

* No SQL for flexible Schema
  - Datastore
  - Bigtable
* Relational for structured
  - Cloud SQL [up to 10 TB]
  - Cloud Spanner [global]
* BigQuery
  - Data warehousing
  - Bq co--a-d line tool