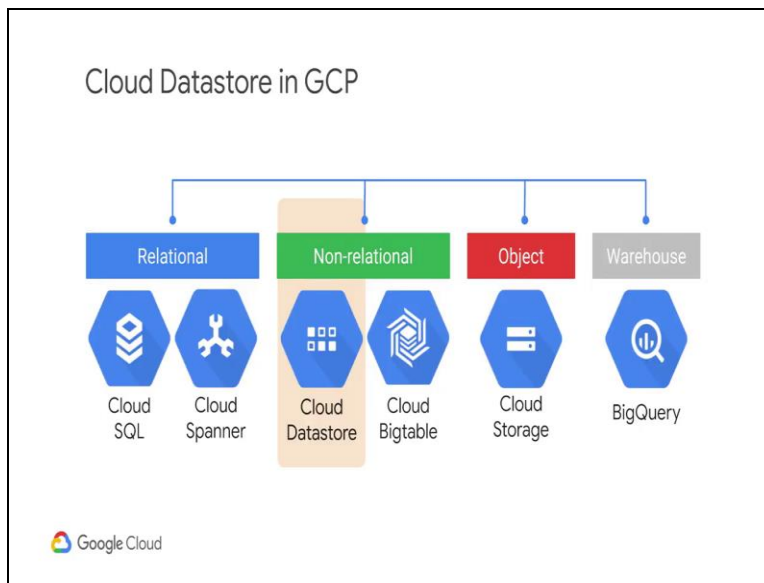


Google Cloud Computing Foundation Course
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Lecture-33
Cloud Datastore a NoSQL Document Store

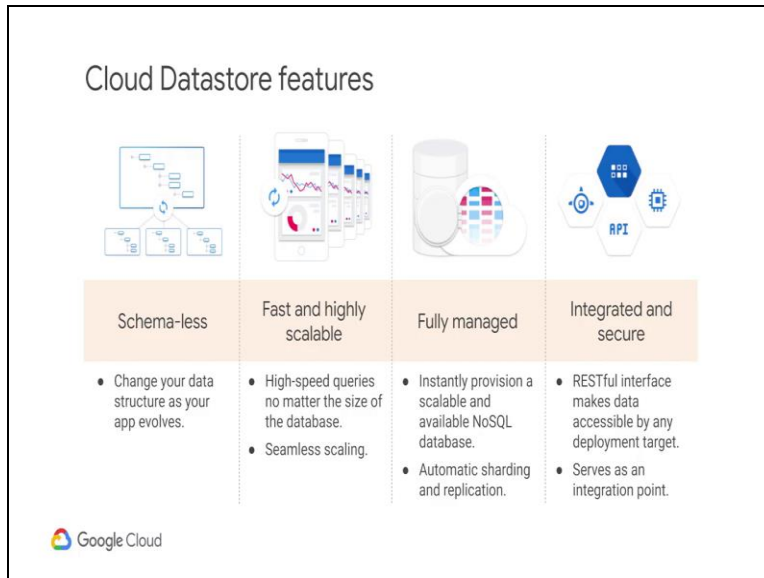
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In this topic you will discover how cloud datastore can be used as a no sequel document store. Cloud datastore is a highly scalable no sequel database ideal for rapid flexible mobile development. Cloud database is a schema less database this means that it does not rely on schema to weigh a relational database does. Cloud datastore is there for ideal if you have non relational data and wanted a server less database without having to worry about nodes are cluster management.

Cloud datastore is it not a full sequel database and is it not a effective storage solution for dat being used for analyses.

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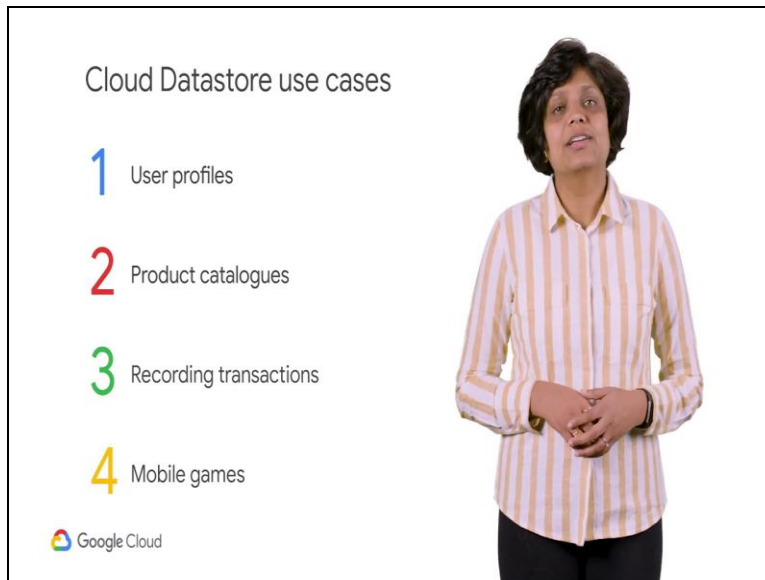
Cloud datastore allows you to change your data structure as your application evolves. So there is no need to perfect your data model at the beginning of your project. With no sequel store properties in data requires no database changes or scheme. Cloud datastore serves high speed queries no matter how big your database to ensure that application maintains high performance. Cloud datastore uses Google query language called GQL. Because it is a query language in a sequel like syntax format is both familiar and easy to learn.

Complex queries or enable with secondary called built in cloud datastore and composite indexes. It automatically scales to support millions of API requests per seconds and 100'ds of terabytes of data. So no configuration or capacity is needed. Cloud datastore is fully managed by Google so you can instanly provision a scalable and available No sequel database without a hassle of spinning of virtual machines and maintain databases.

Cloud datastore automatically handle sharding and replication across multiple datacenters to provide a database that is highly available and durable. This allows users to focus on application development. With restful interface of cloud datastore data can be easily accessed by any deployment target. You can build solutions that run on app engine GKE and compute engine use cloud datastore as their integration point.

Cloud datastore automatically encrypts all data before it is written into the disk automatically decrypts the data when read by the authorized user.

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Cloud datastore is the best choice for shifting data requirements without needing downtime such as user profiles where flexibility enables rapid development of new features. It is also ideal for storing new profiles to deliver a customized experience based on activities and preferences. Cloud datastore enables true data hierarchy through ancestor. This means that related data can be strongly grouped together and making exceptional for tasks such as storing product review or storing online product catalog that provide real time inventory and product details for a customer.

Cloud datastore is well suited for recording transactions based on acid properties. For example transferring funds from one bank account to another for mobile games cloud datastore provides durable key value store that clear data to be efficient stored and accessed. It scalability accommodates the growth of games whether there are 10 players or hundred million.