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1. Which of the following are characteristics of a View?

   1 / 1 point

   Select all options that apply.

   ☐ A view is limited to querying a single table.

   ☑ You can query the view and filter the data in much the same way as a table.

   > ✓ **Correct**
   > You can query the view and filter the data in much the same way as a table.

   ☑ A view is a virtual table based on the result set of a query.

   > ✓ **Correct**
   > A view is a virtual table based on the result set of a query.

2. What can an index on a table do?

   1 / 1 point

   ○ Create a virtual table based on the result set of a query

   ⦿ Locate rows in a table quickly by referencing an indexed value.

   ○ Create a structure made up of rows and columns that can be used for storing data

   > ✓ **Correct**
   > You create indexes to help speed up queries.

3. When moving your databases to the cloud you can avail of which of the following cloud models?

   1 / 1 point

   Select all options that apply.

   ☑ Platform-as-a-service (PaaS)

   > ✓ **Correct**
   > PaaS stands for Platform-as-a-service. Rather than creating a virtual infrastructure, and installing and managing the database software yourself, a PaaS solution does this for you.

   ☐ Software-as-a-service (SaaS)

   ☑ Infrastructure-as-a-Service (IaaS)

   > ✓ **Correct**
   > IaaS is an acronym for Infrastructure-as-a-Service. Azure enables you to create a virtual infrastructure in the cloud that mirrors the way an on-premises data center might work.

4. Non-relational databases are suitable for which of the following scenarios?

   1 / 1 point

   Select all options that apply.

   ☐ Wages Application

   ☑ IoT and telematics.

   > ✓ **Correct**
   > These systems typically ingest large amounts of data in frequent bursts of activity. Non-relational databases can store this information very quickly.

   ☑ Gaming.

   > ✓ **Correct**
   > The database tier is a crucial component of gaming applications. Modern games perform graphical processing on mobile/console clients but rely on the cloud to deliver customized and personalized content like in-game stats, social media integration, and high-score leaderboards.

   ☑ Web and mobile applications.

5. Which of the following are features of Semi-structured entities?   1 / 1 point

Select all options that apply.

☑ You define the fields that you need on a per-entity basis.

> ✓ **Correct**
> You only define the fields that you need on a per-entity basis.

☐ The fields must be the same in every entity.

☑ Semi-structured data is data that contains fields.

> ✓ **Correct**
> Semi-structured data is data that contains fields.

6. Which of the following are categories of NoSQL?   1 / 1 point

Select all options that apply.

☑ Key-value stores

> ✓ **Correct**
> NoSQL (non-relational) databases generally fall into four categories: key-value stores, document databases, column family databases, and graph databases.

☑ Graph databases

> ✓ **Correct**
> NoSQL (non-relational) databases generally fall into four categories: key-value stores, document databases, column family databases, and graph databases.

☑ Document databases

> ✓ **Correct**
> NoSQL (non-relational) databases generally fall into four categories: key-value stores, document databases, column family databases, and graph databases.

☐ Tabular databases

☑ Column family databases

> ✓ **Correct**
> NoSQL (non-relational) databases generally fall into four categories: key-value stores, document databases, column family databases, and graph databases.

7. Which of the following are features of a document database?   1 / 1 point

Select all options that apply.

☐ A document store requires that all documents have the same structure.

☑ A document typically contains the entire data for an entity.

> ✓ **Correct**
> Typically, a document contains the entire data for an entity.

☐ A document database uses a key-value store.

☑ A document database can store data in a format such as JSON, XML, or YAML format,

> ✓ **Correct**
> Document databases typically store data in JSON format, or they could be encoded using other formats such as XML, YAML, JSON, BSON.

8. What is the process of obtaining and importing data for immediate use or storage in a database called?   1 / 1 point

◉ Ingestion

○ Consumption

> ✓ **Correct**
> Data ingestion is the process of obtaining and importing data for immediate use or storage in a database.

9. Which one of the following terms refers to the technologies, applications, and practices related to the collection, integration, analysis, and presentation of business information?

○ Reporting

○ Data Visualisations

◉ Business Intelligence

> ⊘ **Correct**
> Business Intelligence (BI) refers to technologies, applications, and practices for the collection, integration, analysis, and presentation of business information. The purpose of business intelligence is to support better decision-making.

10. Which of the following analytics helps answer questions about why things happened?

◉ Cognitive analytics

○ Prescriptive analytics

○ Diagnostic analytics

> ⊗ **Incorrect**
> Try going back and reviewing *Explore concepts of data analytics*.