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1. The main characteristics of a relational database include:

1 / 1 point

Select all options that apply.

- ☐ Rows in the same table can have different numbers of columns.
- ☒ All data is tabular.

✔ Correct
One of the main characteristics of a relational database includes all data that is tabular.

- ☒ Entities are modeled as Tables.

✔ Correct
One of the main characteristics of a relational database includes entities are modeled as tables, each instance of an entity is a row in the table,

- ☒ A table can contain any number of rows.

✔ Correct
One of the main characteristics of a relational database includes tables that can contain any number of rows.

2. True or False?

1 / 1 point

A foreign key uniquely identifies each row in a table. No two rows can share the same primary key.

- ☐ True
- ☒ False

✔ Correct
A primary key uniquely identifies each row in a table. No two rows can share the same primary key.

3. Which of the following may have an adverse effect on your system by adding more indexes?

1 / 1 point

- ☒ A table that is queried infrequently, but subject to a large number of inserts, updates, and deletes.
- ☐ A read-only table.
- ☐ A table that contains data that is modified infrequently.

✔ Correct
If a table is queried infrequently, but subject to a large number of inserts, updates, and deletes (such as a table involved in OLTP), then creating indexes on that table can slow your system down.

4. True or False?

0 / 1 point

Some relational database management systems support clustered indexes that physically reorganize a table by the index key.

- ☐ True
- ☒ False

✘ Incorrect
Some relational database management systems also support clustered indexes. A clustered index physically reorganizes a table by the index key.

5. Which of the following are benefits of a cloud-based approach to Database Management Systems?

1 / 1 point

Select all options that apply.

- ☐ The organization only incurs Capital Expenditure.
- ☒ Scalability

✔ **Correct**
In the cloud, scaling up and scaling out can be handled in many cases with no or minimal downtime.

✔ Organisations only have to pay for the resources they use.

✔ **Correct**
Organisations only have to pay for the resources they use.

✔ Data can be backed up regularly.

✔ **Correct**
Data can be backed up regularly.

6. True or False?

1 / 1 point

Azure offers several PaaS solutions for relational databases including:

- Azure SQL Database
- Azure Database for PostgreSQL
- Azure Database for MySQL
- Azure Database for MariaDB

☒ True

☐ False

✔ **Correct**
Azure offers several PaaS solutions for relational databases, including Azure SQL Database, Azure Database for PostgreSQL, Azure Database for MySQL, and Azure Database for MariaDB.

7. Which of the following is a characteristic of a relational database table?

1 / 1 point

☐ All data must be stored as character strings

☒ A row in a table represents a single entity or record.

☐ Different rows in the same table can contain different columns

✔ **Correct**
Each row in a table contains the data for a single entity or record in that table