

1. Fill in the blank: Data professionals use data \_\_\_\_\_ to control their company's data and make sure data assets are formally managed.
  - a. aggregation
  - b. governance**
  - c. strategy
  - d. mapping
2. A data professional at a bank uses metadata to track customer loan applications. They confirm the date and time applications were submitted. What type of metadata are they using?
  - a. Descriptive
  - b. Administrative**
  - c. Structural
  - d. General
3. Which of the following statements accurately describe primary and foreign keys in a relational database? Select all that apply.
  - a. A foreign key uniquely identifies a record in the table in which it is located.
  - b. Foreign keys are used to connect one table to another.**
  - c. A table can only have one primary key, but it can have multiple foreign keys.**
  - d. A primary key references a column in which each value is unique.**
4. A data analyst runs the following query. What do they want to retrieve from the database?

```
1  SELECT *  
2  FROM CustomerOrders  
3  WHERE Country = 'Finland';
```

- a. All fields of the customers who have placed an order
  - b. All fields of orders from customers in Finland**
  - c. All fields of orders from customers outside of Finland
  - d. All fields of the names of customers living in Finland
5. A junior data professional prepares for an analysis project about a very broad and global topic. However, they will only have access to internal data. What are some potential limitations that they should be aware of? Select all that apply.
  - a. The data is not owned by the company.
  - b. It may be difficult to gather data from multiple departments.
  - c. The data may not fully represent the facts.
  - d. It will be more difficult to confirm the reliability of the data.

6. A data professional at a local zoo is sending an email to all donors who give at least \$25 to the zoo each year. What spreadsheet tool will enable them to display only donors who meet that condition?
- Filter the data to show only donors who have given less than \$25 each year
  - Filter the data to show only donors who have given more than \$25 each year
  - Sort donor names in ascending order
  - Sort donor names in descending order
7. A junior data analyst at a dental care provider uses a tool to explore the data in its patient database. They're creating a report on the number of times patients floss their teeth each week. This information is stored in the **floss\_per\_week** field of the **CustomerSurvey** table. What query should they write to return only this information?

a.

```
1  SELECT floss_per_week
2  FROM CustomerSurvey;
```

```
1  SELECT *
2  FROM CustomerSurvey;
```

b.

```
1  SELECT *
2  FROM CustomerSurvey
3  WHERE field = "floss_per_week";
```

c.

```
1  SELECT floss_per_week
2  FROM *;
```

d.

8. Which SQL statement will return only elementary school students from the Grade column of the Students database table?

```
1  SELECT *
2  FROM Grade = 'elementary';
```

a.

```
1 SELECT *
2 FROM Students
3 WHERE Grade = 'elementary';
```

b.

```
1 SELECT *
2 FROM Grade
3 WHERE 'elementary';
```

c.

```
1 SELECT *
```

d. 

```
2 WHERE 'elementary';
```

9. What are the benefits of open data for the public? Select all that apply.
- a. Increased government secrecy and less public participation.
  - b. Limited access to local issues and a decrease in economic innovation.
  - c. Increased public participation and improved decision making.
  - d. Improved understanding of government spending and opportunities to contribute to public planning.

10. You are a database administrator for a music streaming service. The company is growing, and the number of users has increased. The limitations of the current database design have become more noticeable. There is a lot more repeated data, such as artist names and album titles, stored across different tables. This redundancy is causing issues with data integrity and making queries slow. In the table for artist names, what is the primary key?

Artist Table
artist_id
artist_name
artist_username

a. artist\_id

b. artist\_name

- c. artist\_username
- d. artist\_id and artist\_name