### Database Quiz

1. \*\*What does SQL stand for?\*\*

- A. \*\*Structured Query Language\*\*

- B. Simple Query Language

- C. Structured Questioning Logic

- D. None of the above

2. \*\*What is the purpose of SQL?\*\*

- A. \*\*To communicate with and manipulate databases\*\*

- B. To write computer programs

- C. To create websites

- D. None of the above

3. \*\*What is a database management system (DBMS)?\*\*

- A. \*\*Software that interacts with the end user, applications, and the database itself to capture and analyse the data\*\*

- B. A system for organizing and storing data in a database

- C. A program for creating websites

- D. None of the above

4. \*\*What is the most common type of DBMS?\*\*

- A. The object-oriented database management system (OODBMS)

- B. \*\*The relational database management system (RDBMS)\*\*

- C. The hierarchical database management system (HDBMS)

- D. None of the above

5. \*\*What is a relational database?\*\*

- A. A database management system based on the object-oriented model

- B. \*\*A database management system based on the relational model\*\*

- C. A database management system based on the hierarchical model

- D. None of the above

6. \*\*What is a table in a relational database?\*\*

- A. A system for storing data in a database

- B. A program for organizing data in a database

- C. \*\*A collection of data organized into rows and columns\*\*

- D. None of the above

7. \*\*What is a primary key in a relational database table?\*\*

- A. A column in a relational database table

- B. \*\*A unique identifier for each row in a relational database table\*\*

- C. A system for storing data in a database

- D. None of the above

8. \*\*What is the syntax to select all columns from a table named "customers"?\*\*

- A. \*\*`SELECT \* FROM customers;`\*\*

- B. `SELECT ALL FROM customers;`

- C. `SELECT customers;`

- D. None of the above

9. \*\*How do you execute an SQL query in Python using mysql-connector library?\*\*

- A. `cursor.query("SELECT \* FROM customers")`

- B. \*\*`cursor.execute("SELECT \* FROM customers")`\*\*

- C. `cursor.run("SELECT \* FROM customers")`

- D. None of the above

10. \*\*How do you retrieve the result of an SQL query in Python using the mysql-connector library?\*\*

- A. `result = cursor.retrieve()`

- B. `result = cursor.fetchone()`

- C. \*\*`result = cursor.fetchall()`\*\*

- D. None of the above

Sure, here are the answers only:

1. A. Structured Query Language

2. A. To communicate with and manipulate databases

3. A. Software that interacts with the end user, applications, and the database itself to capture and analyse the data

4. B. The relational database management system (RDBMS)

5. B. A database management system based on the relational model

6. C. A collection of data organized into rows and columns

7. B. A unique identifier for each row in a relational database table

8. A. `SELECT \* FROM customers;`

9. B. `cursor.execute("SELECT \* FROM customers")`

10. C. `result = cursor.fetchall()`