



Review

▼ ✓ Challenge #1

Scored

☰ Your Answers

📝 Your Notes (Editable)

1. What is SQL and what is it used for? (15 Marks)

SQL (Structured Query Language), is a domain-specific language used in programming and designed for managing and manipulating data held in a relational database management system (RDBMS). It is commonly used for tasks such as querying data, updating data, inserting data, and deleting data in a database.

2. Give full meaning and explanation of what is meant by RDBMS. List two RDBMS you know. (10 Marks)

RDBMS stands for Relational Database Management System. It is a type of database management system that stores data in a structured format, using rows and columns to represent the data and relationships between data entities. Two examples of RDBMS are MySQL and PostgreSQL.

3. What is JDBC? (10 marks)

JDBC stands for Java Database Connectivity. It is an API (Application Programming Interface) that provides a standard way for Java applications to interact with databases. JDBC allows Java programs to execute SQL statements, retrieve results, and update data in a database.

4. What is JDBC Driver? (10 marks)

A JDBC Driver is a software component that enables Java applications to connect to a database using JDBC. The JDBC driver acts as a bridge between the Java application and the database, handling communication and data exchange between the two.



5. 1. What is a Servlet?(10 Marks).
2. What is request and response?(10 Marks).

1. A Servlet is a Java program that runs on a web server, handling client requests and generating dynamic web content.

2. In web development, a request is when a client (such as a web browser) asks a web server for some information, while a response is the data sent back to the client by the server in reply to the request.

6. What is the difference between GET and POST method? (10 Marks).

The GET method is used to request data from a server, and the data is sent in the URL, visible to the user. The POST method is used to send data to a server to create/update a resource, and the data is sent in the request body.

7. What is JSP and what is it used for? (15 Marks)

JSP (JavaServer Pages) is a technology used for creating dynamic web pages based on HTML and Java. It allows developers to embed Java code in HTML pages, making it easier to develop web applications.

8. What is the difference between Relational and Non- relational database management system? (10 Marks).

A relational database management system (RDBMS) stores data in tables with rows and columns, and enforces integrity constraints such as foreign keys and normalization. A non-relational database management system (NoSQL) stores data in flexible schemas and provides scalability and high performance for large amounts of data, but sacrifices some of the relational database features.

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