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Advance Java

Section 1 -JDBC API

- MYSQL/MariaDB Connection
- Statement and Insert, Delete Operations
- Prepared Statement and Update Operation
- Select Operation and ResultSet
- Scrllable and Updatable ResultSet
- Join Queries and Result Set
- Callable Statement and StoredPeocedures
- Storing and Retrieving Images and Files
- Transaction Management, Commit and Rollback
- Batch Processing
- *1. Write a Java program to establish a connection to a MySQL database.
- *2. Write a program to insert data into a MySQL table using JDBC.
- *3. Write a program to update records in a MySQL table using a prepared statement and JDBC.
- *4. Write a program to retrieve all records from a MySQL table using JDBC.
- *5. Write a program to retrieve records from a MySQL table using a scrollable ResultSet in JDBC.
- *6. Write a program to perform an inner join between two MySQL tables using JDBC.
- *7. Write a program to store an image into a MySQL database using JDBC.
- *8. Write a program to perform a transaction using JDBC, including commit and rollback operations.
- *9. Write a program to execute a stored procedure that returns a result set using JDBC.
- *10. Write a program to execute a dynamic SQL query based on user input using JDBC.
- *11. Write a program to perform pagination on a large result set using JDBC.
- #1. Write a program to retrieve the database metadata using JDBC.
- #2. Write a program to delete records from a MySQL table based on a condition using JDBC.
- #3. Write a program to update multiple records in a MySQL table using a batch update and JDBC.
- #4. Write a program to retrieve records from a MySQL table based on a condition using JDBC.
- #5. Write a program to update records in a MySQL table using an updatable ResultSet and JDBC.
- #6. Write a program to call a stored procedure in a MySQL database using JDBC.
- #7. Write a program to store a file into a MySQL database using JDBC.
- #8. Write a program to perform batch insert operations into a MySQL table using JDBC.
- #9. Write a program to retrieve the auto-incremented value of a column after an insert operation using JDBC.
- #10. Write a program to execute a transaction that involves multiple SQL statements using JDBC.
- #11. Write a program to retrieve and display metadata information about a MySQL table using JDBC.

Section 2 - Servlet Programming

- Html Form and Servlet Request (GET and POST)
- Servlet Response and redirect
- ServletConfig, ServletContext
- Session Management url rewriting
- Session Management hidden form fields
- Session Management HttpSession Object
- Session Management HttpSession and Login/Logout web.xml entries
- Servlet Event and Listeners

- Servlet filters
- Servlet HTML JDBC CRUD
- *1. Write a servlet program to display "Hello, World!" on a web page.
- *2. Write a servlet program to validate and process a login form submission.
- *3. Write a servlet program to handle session management using cookies.
- *4. Write a servlet program to perform CRUD operations (Create, Read, Update, Delete) on a database using IDBC
- *5. Write a servlet program to handle servlet events and implement event listeners.
- #1. Write a servlet program to handle a GET request and display the request parameters.
- #2. Write a servlet program to display the client's IP address and user agent.
- #3. Write a servlet program to store and retrieve session information using HttpSession.
- #4. Write a servlet program to implement user registration and storing user information in a database.
- #5. Write a servlet program to display a dynamic HTML page with data retrieved from a database using JDBC.

Section 3 - Java Server Pages

- JSP implicit Objects Request, Response
- JSP implicit Objects Session
- JSP implicit Objects Application, Config, Page, Exception
- JSP Directives page, include, tag lib
- JSP Actions jsp:forward, jsp:include, jsp:useBean
- JSP- file uploading
- JSP JDBC MVC CRUD example
- JSTL Core tags
- JSTL Function and formatting tags
- JSTL SQL tags
- *1. Write a JSP program to display "Hello, World!" on a web page.
- *2. Write a JSP program to declare and use a variable to store a message.
- *3. Write a JSP program to store and retrieve session attributes.
- *4. Write a JSP program to forward a request to another JSP page using the jsp:forward action.
- *5. Write a JSP program to perform CRUD operations (Create, Read, Update, and Delete) on a database using JDBC.
- *6. Write a JSP program to use JSTL SQL tags to execute database queries and display the results.
- *7. Write a JSP program to validate and process a login form submission using JSP and JDBC.
- #1. Write a JSP program to display the current date and time on a web page using scriptlets.
- #2. Write a JSP program to display the request parameters passed from a form.
- #3. Write a JSP program to display the context path of a web application.
- #4. Write a JSP program to use the jsp:useBean action to instantiate a JavaBean.
- #5. Write a JSP program to use JSTL function tags to perform string manipulation operations.
- #6. Write a JSP program to display a dynamic HTML table with data retrieved from a database using JSTL.
- #7. Write a JSP program to display custom error pages for different types of exceptions.

Section 4 -

- JSON Request Processing
- XML Response Generation
- XML Request Processing
- RESTful Web Service with JAX-RS
- RESTful Web Service using NetBeans
- REST API Testing

- *1. Write a program to parse and extract data from a JSON request in Java.
- *2. Write a program to generate a JSON response in Java.
- *3. Write a program to generate an XML response in Java.
- *4. Write a program to implement a RESTful web service using JAX-RS in Java.
- *5. Write a program to create a RESTful web service using NetBeans IDE.
- *6. Write a program to convert JSON data to XML format.
- *7. Write a program to test a REST API endpoint using a programming language of your choice.
- #1. Write a program to validate and process JSON input from a client application.
- #2. Write a program to parse and extract data from an XML request in Java.
- #3. Write a program to validate and process XML input from a client application.
- #4. Write a program to handle path parameters in a JAX-RS web service.
- #5. Write a program to implement authentication and authorization in a RESTful web service.
- #6. Write a program to validate JSON data against a JSON schema.
- #7. Write a program to perform pagination and filtering in REST API requests.