DURGA Software Solutions®

ADV. JAVA

JDBC

Course Syllabus

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No of Videos: 200+

No of Hrs:55+

Adv Java JDBC Part - 1

Topic: Introduction To JDBC

1. JDBC Agenda

2. Introduction to Advanced Java Part - 1

3. Introduction to Advanced Java Part - 2

4. JDBC in Simple Way Part- 1

5. JDBC in Simple Way Part- 2

Topic: Evolution of JDBC & JDBC API

6. Storage Areas

7. JDBC Versions

8. Evolution of JDBC Part - 1

9. Evolution of JDBC Part - 2

10. JDBC Architecture

11. How JAVA is Platform Independent & Database Independent

12. JDBC API Part -1

13. JDBC API Part – 2

Topic: JDBC Drivers

14. Types of Drivers : Introduction

15. Types of Drivers : Type - 1

16. Types of Drivers : Type - 2

17. Types of Drivers : Type - 3

18. Types of Drivers : Type - 4

19. Architecture Diagram of all JDBC Drivers

20. Which JDBC Driver should be used?

21. Difference between thick & thin Drivers

22. Difference between 2 - Tier & 3 - Tier Drivers

23. Comparison Table of All JDBC Drivers

Topic: Steps to Develop JDBC Application

24. Step - 1: Load and Register Driver class

25. Step-2:Establish Connection between Java Application and DataBase

26. Step-3: Creation of Statement object

27. Prepare, send & Execute SQL Query Part- 1

28. Prepare, send & Execute SQL Query Part- 2

29. Prepare, send & Execute SQL Query Part- 3

30. Prepare, send & Execute SQL Query Part- 4

31. Step-5:Process Result from ResultSet

32. Step-6: Close the Connection

Topic: Working with All JDBC Drivers

33. Working with Type -1 Driver

34. Working with Type - 2 Driver

35. Working with Type - 4 Driver

36. Working with Type - 3 Driver

37. Working with Type - 5 Driver

38. Summary of all JDBC Drivers

39. How to identify the class of a method?

40. AutoLoading of JDBC Driver class (New Feature from JDBC 4.0V)

Topic: JDBC Programs for CRUD Operations

41. JDBC App - 1: Program to Create Table

42. JDBC App - 2: Program to Drop Table

43. JDBC App - 3: Program to Insert a Single Record into Employees Table

44. JDBC App - 4: How to Read Dynamic input from Keyboard

45. JDBC - App -5 & 6 : Formatting Sql Queries with Dynamic Input

46. JDBC App - 7 : Program to insert Multiple Rows

47. JDBC App - 8 : Program to Update Single Row

48. JDBC App - 9 : Program to Update Multiple Rows

49. JDBC App - 10 : Program to Delete Single Record

50. JDBC App - 11 : Program to Delete Multiple Rows

51. JDBC App - 12 : Program to Select All Rows of Employeee Table

52. JDBC App - 13: Program to Select All Rows Based on Sorting order of Salaries

53. JDBC App - 14 : Program to Select Range of Records based on Address

54. JDBC App - 15 : Program to Select Range of Records based on Salary Range

55. JDBC App-16: Select Range of Records Based on initial characters of Employee

56. Selecting Particular Columns From the Table

57. JDBC App - 17 : How to Select Particular Columns From the Table

Topic: JDBC Programs for Aggregate Functions

58. Aggregate Functions

59. App -18:To display Number of Rows by SQL Aggregate Function Count(*)

60. App -19:Select Highest/Min Salaried Employee information by Using SQL Aggregate

61. JDBC App - 20: Select Nth Highest Salaried Employee information

62. App - 21: How to display retrieved data from the database through HTML

Topic: JDBC Execute method Loop Holes

63. App-22: How to execute Select and Non - Select Queries by using execute() method

64. App - 23: Execute method Loop Holes: executeQuery() Vs Non -Select Query

65. App - 24: Execute method Loop Holes: executeUpdate() Vs Select Query

66. App - 25: Execute method Loop Holes: executeUpdate() Vs DDL

Topic: JDBC Real Time Standards

67. Importance of Java IDEs: Eclipse, Netbeans, IntelliJ IDEA, BlueJ, JGrasp

68. How to download Eclipse and Run Hello World Program

69. How to develop and run JDBC Application on Eclipse

70. Working with Mysql Database

71. Working with Mysql Database - JDBC Information

72. To Copy Data from Oracle database to Mysql Database

73. JDBC Coding Standards

74. Program To Demonstrate JDBC Coding Standards

75. Program To Demonstrate JDBC Coding Standards with Code Reusability

Adv Java JDBC Part - 2

Topic: PreparedStatement

1. Life cycle of SQL Query Execution

2. PreparedStatement: Need of PreparedStatement

3. Statement Vs PreparedStatement (Performance wise)

4. Steps to develop JDBC Application by using PreparedStatement

5. Program to Demonstrate PreparedStatement

6. Program to Delete Record by Using PreparedStatement

7. Static vs Dynamic queries

8. Advantages and Limitation of PreparedStatement

9. Difference b/w Statement & PreparedStatement

10. SQL Injection Attack Introduction

11. Program to Show SQL Injection Attack with Statement Object

12. Program to Show that No change of Occurring SQL Injection Attack in PreparedStat

Topic: Stored Procedures and CallableStatement

13. Stored Procedures Introduction

14. Create and execute Stored Procedure in Oracle Part-1

15. Create and execute Stored Procedures in Oracle Part-2

16. Java Code for calling Stored Procedures

17. Mapping Java Types to database Types by using JDBC Types

18. Process to call Stored Procedure from java application by using CallableStatemen

19. Stored Procedures Application - 1

20. Stored Procedures Application - 2

21. Stored Procedures Application - 3

22. Stored Procedures With CURSORS Part - 1

23. Stored Procedures With CURSORS Part - 2

24. Stored Procedures With CURSORS Applications

25. CallableStatement Functions Part - 1

26. CallableStatement Functions Part - 2

27. CallableStatement Functions Part - 3

28. Statement vs PreparedStatement vs CallableStatement

Topic: Batch Updates

29. Need of Batch Updates Part-1

30. Need of Batch Updates Part-2

31. How to implement Batch updats

32. Program to Demonstrate Batch Updates with PreparedStatement

33. Batch updates summary

34. In JDBC How Many Execute Methods Are Avaialble

Topic: Working with Date Values

35. Difference between java.util.Date and java.sql.Date

36. Inserting Date Values into the Database

37. Program-1 for inserting Date values into the Database

38. Program-2 for inserting Date values into the Database

39. Program for Retrieving Date values from the Database

40. Handling Date Values For Database Operations-FAQs

Topic: Working with BLOB and CLOB Types

41. Working with Large Objects (BLOB And CLOB) Introduction

42. Steps to insert BLOB type into database

43. Program to Demonstrate insert BLOB type into database

44. Need of Buffer Concept in I/O Operations

45. Program to to Retrieve BLOB type from Database

46. Program to insert CLOB type file in the database

47. Program to Retrieving CLOB Type from Database

Topic: Connection Pooling

48. Connection Pooling Introduction

49. Process to implement Connection Pooling

50. Program to Demonstrate Connection Pooling for Oracle & MySQL Databases

51. Difference Between getting Connection From DriverManager & DataSource Object

Topic: Working with Properties

52. Properties Introduction

53. Program to Demonstrate use of Properties file

54. Program to Demonstrate use of Properties file Program - 1

55. Program to Demonstrate use of Properties file Program - 2

56. How many getConnection() methods are available in DriverManager class

Topic: Transaction Management & Savepoint

57. Transaction Management Introduction

58. Transactions Properties & Types of Transactions

59. How to Implement Transaction

60. Program to demonstrate Transactions

61. Savepoint Introduction

62. Program to Demonstrate Savepoint

63. Transaction Concurrency Problems

64. Transaction Isolation levels

65. How many Transaction Isolation Levels are defined in JDBC

Topic: Working with MetaData

66. MetaData Introduction

67. DatabaseMetaData

68. Program to display Table Names present in Database By using DatabaseMetaData

69. ResultSetMetaData Introduction

70. ResultSetMetaData Programs 1 & 2

71. ParameterMetaData

Topic: JDBC with Excel Sheets

72. JDBC with Excel Sheets Introduction

73. Program to read data from excel and copy into Oracel Database

Topic: Working with ResultSet Types

74. ResultSet Types Introduction

75. ResultSet Types (Read Only ,Updatable ,Forward only (Non-Scrollable),Scrollable)

76. Differnences Between Scrollable and Non-Scrollable ResultSets

77. How to get Required ResultSet

78. List of allowed methods on Non-Scrollable / Scrollable ResultSets

79. What is the difference Between absolute() and relative()methods?

80. Iterating records in both forward & backward direction by using SCROLLABLE Resul

81. Navigating Records by using SCROLLABLE ResultSet

82. Reflecting Database updations by using SCROLL SENSITIVE ResultSet Type-1,2 & 4 D

83. Updatable ResultSet and Delete operation

105. To Insert & delete Records by using WebRowSet

106. JoinRowSet Introduction

107. To Retrieve Records by using JoinRowSet

108. FilteredRowSet Introduction

109. To Retrieve Records by using FilteredRowSet

110. Summary of JDBC RowSets

111. Event Handling Mechanism for RowSets

112. Differences Between ResultSet and RowSet

Topic: Working with RowId

113. RowId Interface

114. RowId lifetime

Topic: Topmost Important JDBC Interview FAQs

115. Explain JDBC Architecture?

116. Explain about how JAVA is Platform Independent & Database Independent?

117. What is Driver and How many Drivers are available in JDBC?

118. Which JDBC Driver should be used?

119. What are various standard steps to develop JDBC Application?

120. Explain about various types of Statements available in JDBC?

121. Explain Differences between Statement & PreparedStatement in JDBC?

122. Explain advantages and disadvantages of Batch updates?

123. How Many Execute Methods Are Avaialble in JDBC?

124. Explain about BLOB and CLOB in JDBC?

125. Difference between setFetchSize() & setMaxRows()