



# RAMA UNIVERSITY

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## FACULTY OF ENGINEERING & TECHNOLOGY

### BCS-503: Object Oriented Techniques

#### Lecture-39

Preeti Singh

Computer Science & Engineering

# OBJECTIVES

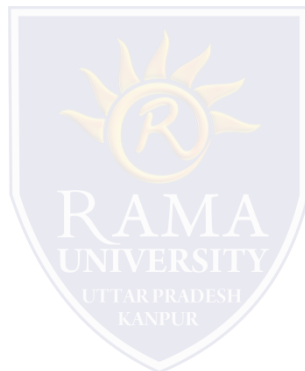
In this PPT, you will learn to:

- ❖ Discuss Java Database Connectivity (JDBC)

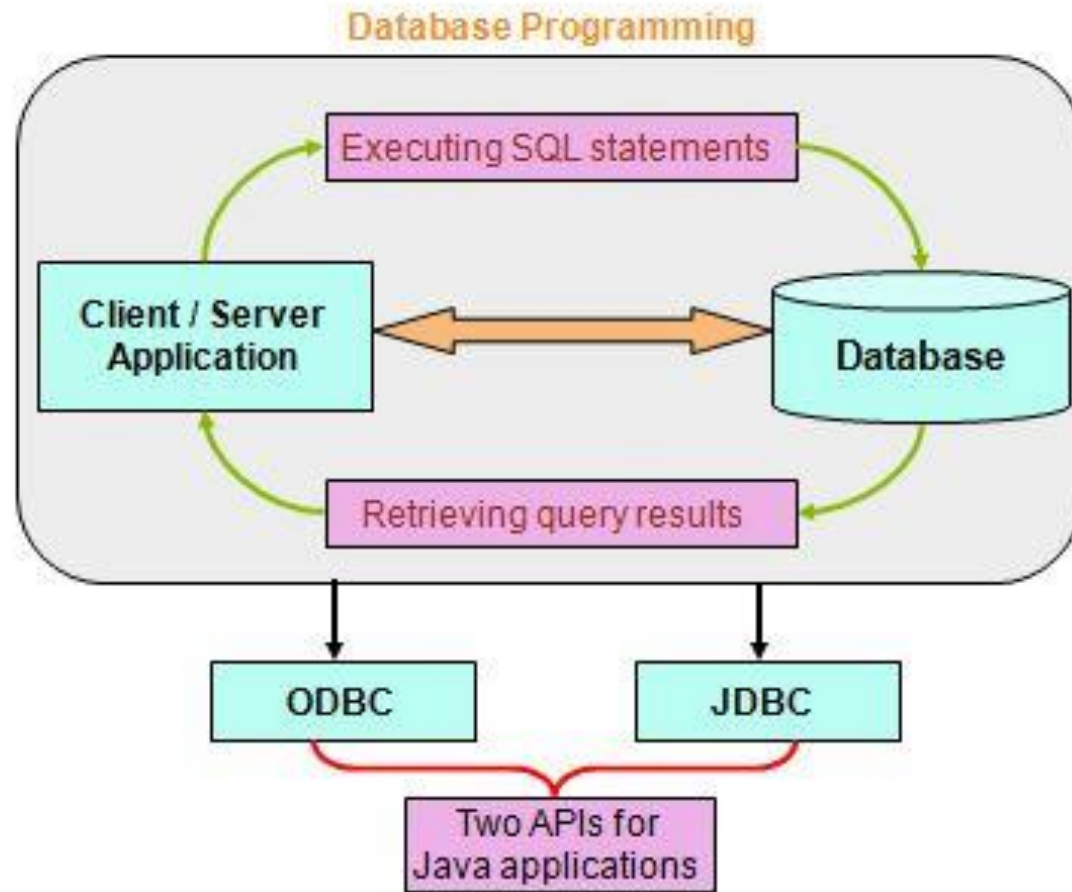
- ❖ Database

- ❖ ODBC

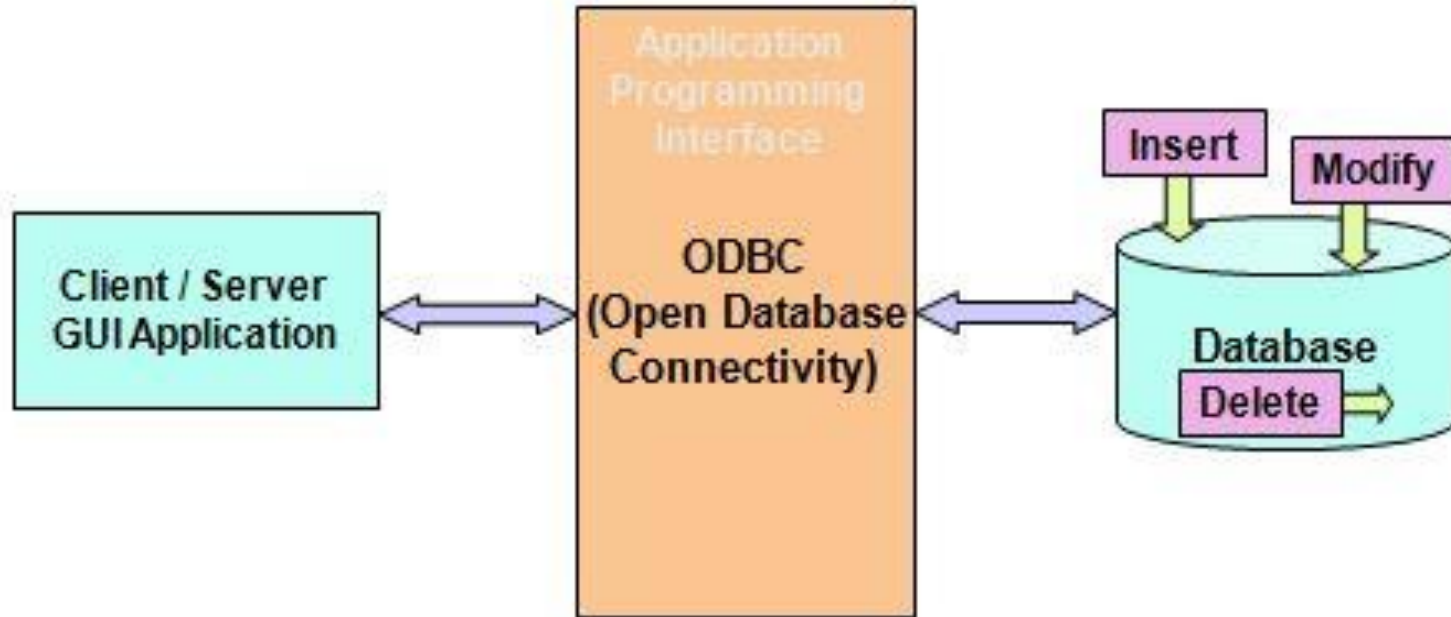
- ❖ JDBC



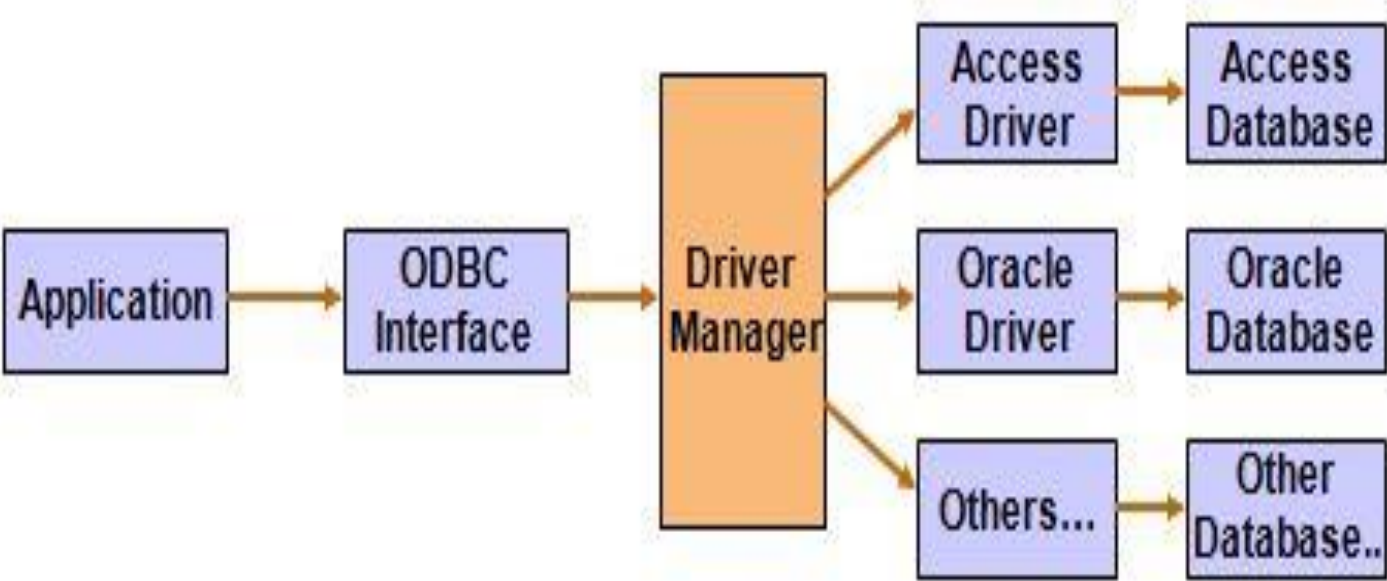
# DATABASE



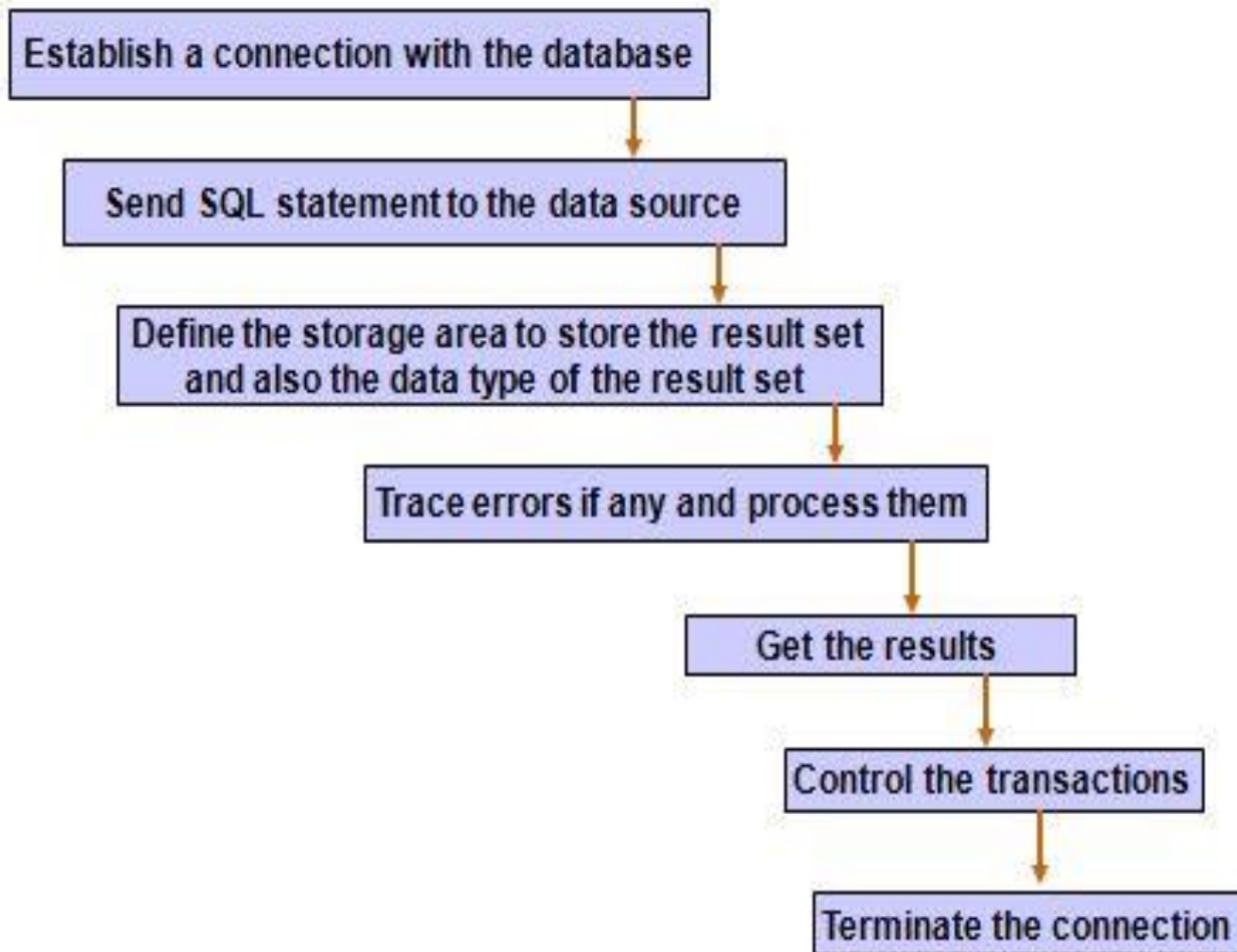
# ODBC

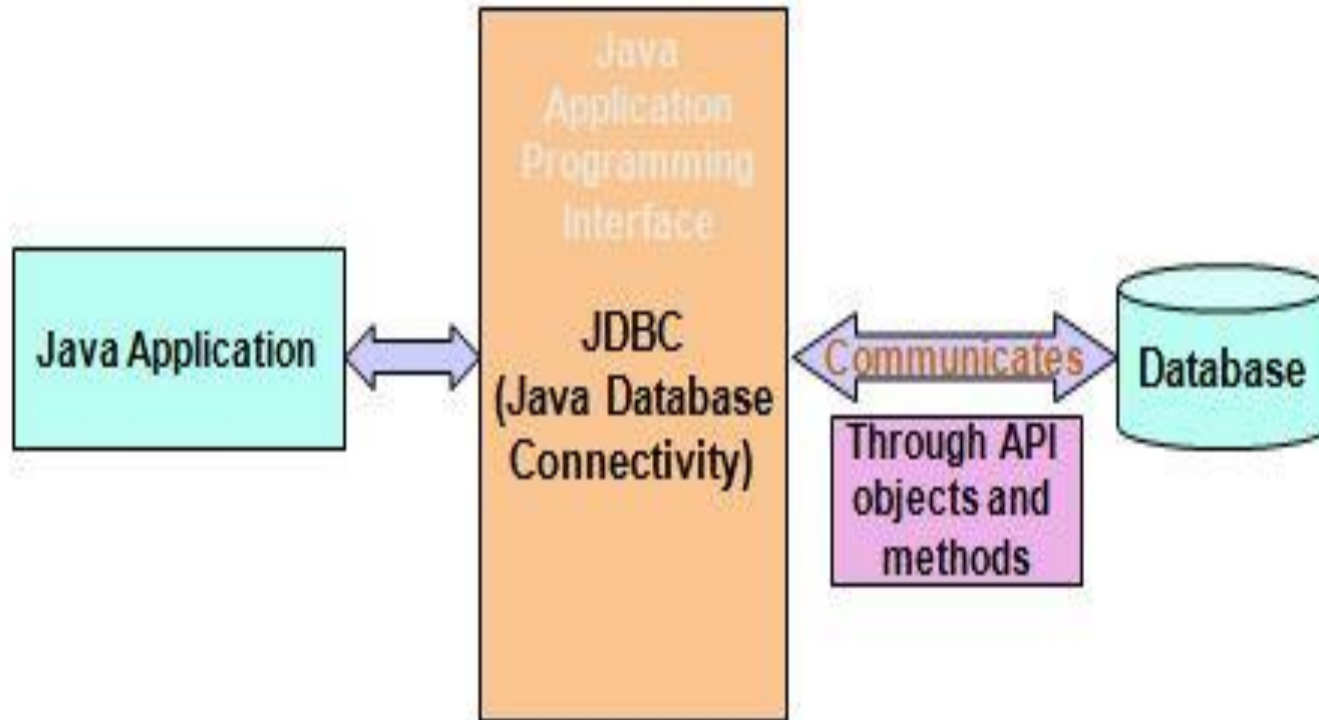


# ODBC (Contd.)



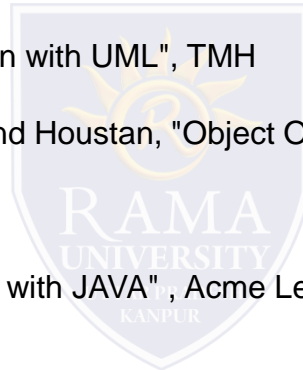
## ODBC (Contd.)





# REFERENCES

1. James Rumbaugh et al, "Object Oriented Modeling and Design", PHI
2. Grady Booch, James Rumbaugh, Ivar Jacobson, "The Unified Modeling Language User Guide", Pearson Education
3. Naughton, Schildt, "The Complete Reference JAVA2", TMH
4. Mark Priestley "Practical Object-Oriented Design with UML", TMH
5. Booch, Maksimchuk, Engle, Young, Conallen and Houston, "Object Oriented Analysis and Design with Applications",  
Pearson Education
6. Pandey, Tiwari, " Object Oriented Programming with JAVA" , Acme Learning
7. <https://www.javatpoint.com/java-tutorial>
8. <https://www.tutorialspoint.com/java/index.htm>
9. [https://www.tutorialspoint.com/object\\_oriented\\_analysis\\_design/index.htm](https://www.tutorialspoint.com/object_oriented_analysis_design/index.htm)
10. <https://www.slideshare.net/niitstudentcare/>





# MULTIPLE CHOICE QUESTION

## Multiple Choice Question:

**Q1. Which of the following best describes about JDBC?**

- a) JDBC works like a bridge connecting a Java application to a RDBMS, execute SQL commands and return results to the application.
- b) JDBC is a software component, which is both network and database independent.
- c) JDBC should be installed in the same machine from where the Java application will run.
- d) JDBC should be installed in the same server that of the database.

# MULTIPLE CHOICE QUESTION

## Multiple Choice Question:

**Q2. Which of the following is used to access the database server at the time of executing the program and get the data from the server accordingly?**

- a) Embedded SQL
- b) Dynamic SQL
- c) SQL declarations
- d) SQL data analysis



# MULTIPLE CHOICE QUESTION

## Multiple Choice Question:

**Q3. Which of the following header must be included in java program to establish database connectivity using JDBC ?**

- a) Import java.sql.\*;
- b) Import java.sql.odbc.jdbc.\*;
- c) Import java.jdbc.\*;
- d) Import java.sql.jdbc.\*;



# MULTIPLE CHOICE QUESTION

## Multiple Choice Question:

**Q4. Which of the following is used to distinguish the variables in SQL from the host language variables?**

a) .

b) –

c) :

d) ,



# MULTIPLE CHOICE QUESTION

## Multiple Choice Question:

**Q5. Which of the following is used to access large objects from a database ?**

- a) setBlob()
- b) getBlob()
- c) getClob()
- d) all of the mentioned



## In this PPT, you learned that:

- Java Database Connectivity (JDBC) Application Programming Interface (API) is a part of the Java APIs provided by Sun Microsystems that defines a set of API objects and methods to interact with databases.
- The JDBC classes are present in the java.sql package and all Java programs that need to interact with databases use methods from this package. The driver is loaded into the Java interpreter using Class.forName() method.
- The driver is loaded into the java interpreter using the Class.forName method

