



CORE JAVA



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Connecting to MySQL Database using Thin Driver

To connect a Java application with MySQL database using Thin Driver. You need to follow the following steps

1. **Load Driver Class:** The Driver Class for MySQL database is **com.mysql.jdbc.Driver** and `Class.forName("com.mysql.jdbc.Driver")` method is used to load the driver class for MySQL database.
2. **Create Connection:** For creating a connection you will need a Connection URL. The Connection URL for MySQL is

jdbc:mysql://localhost:3306/test

↓
API

↓
Database

↓
Server name
on which
MySQL is
running

↓
Port
Number

↓
database
name

You will also require **Username** and **Password** of your MySQL Database Server for creating connection.

3. **Loading jar file:** To connect your java application with MySQL, you will also need to load `mysql-connector.jar` file. This file can be loaded into 2 ways.

1. Copy the jar file into `C:\Program Files\Java\jre7\lib\ext` folder.

or,

2. Set it into classpath. For more detail see **how to set classpath** ([setting-classpath-for-java.php](#))

Download mysql-connector.jar file (mysql-connector.jar)

Example

Create a table in MySQL Database

```
create table Student(sid int(10),name varchar(20));
```

Insert some record into the table

```
insert into Student values(102,'adam');  
insert into Student values(103,'abhi');
```

Accessing record from Student table in Java application

```
import java.sql.*;  
class Test  
{  
public static void main(String []args)  
{  
try{  
//Loading driver  
Class.forName("com.mysql.jdbc.Driver");  
  
//creating connection  
Connection con = DriverManager.getConnection  
    ("jdbc:mysql://localhost:3306/test","username","password");  
  
Statement s = con.createStatement();    //creating statement  
  
ResultSet rs = s.executeQuery("select * from Student"); //executing statement  
  
while(rs.next()){  
System.out.println(rs.getInt(1)+" "+rs.getString(2));  
}  
  
con.close();    //closing connection  
}catch(Exception e){  
e.printStackTrace();  
}  
}  
}
```

Output

```
102 adam  
103 abhi
```

Inserting record into a table using java application

```
import java.sql.*;
class Test
{
public static void main(String []args)
{
try{
//Loading driver
Class.forName("com.mysql.jdbc.Driver");

//creating connection
Connection con = DriverManager.getConnection
        ("jdbc:mysql://localhost:3306/test","username","password");

PreparedStatement pst=con.prepareStatement("insert into Student values(?,?)");

        pst.setInt(1,104);
        pst.setString(2,"Alex");
        pst.executeUpdate();

con.close();    //closing connection
}catch(Exception e){
e.printStackTrace();
}
}
}
```

[← Prev \(connecting-to-oracle.php\)](#)

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