# **JDBC- Experiment 11**

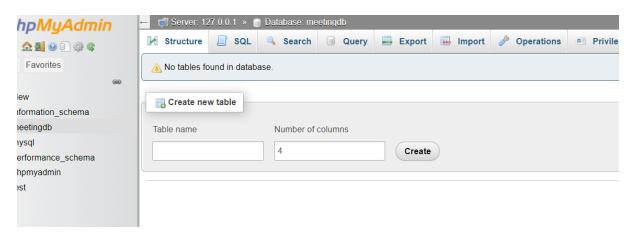
Vamika Mahajan

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Q1. Create a table named "Meeting" having the columns (MeetingID, ScheduledTime, ScheduledDate, participantID, NameOfParticipant, participantDateBirth, Email, Mobile). "participantID" is set auto increment.

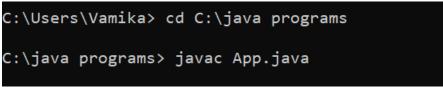
```
import java.sql.*;
public class App {
    public static void main(String[] args) throws Exception {
        Class.forName("com.mysql.cj.jdbc.Driver");

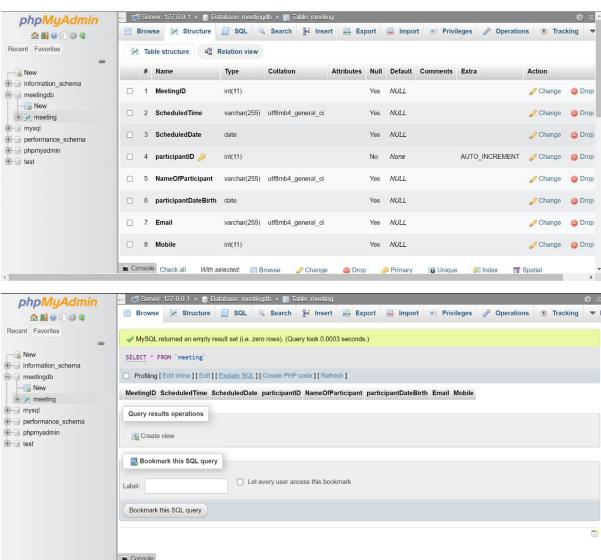
        Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/meetingDB", "root", "");

        Statement statement = conn.createStatement();

        statement.executeUpdate("CREATE TABLE Meeting (MeetingID int, ScheduledTime varchar(255), ScheduledDate Date, participantID int AUTO_INCREMENT , NameOfParticipant varchar(255), participantDateBirth Date, Email varchar(255), Mobile int, PRIMARY KEY(participantID))");
```

### Output:





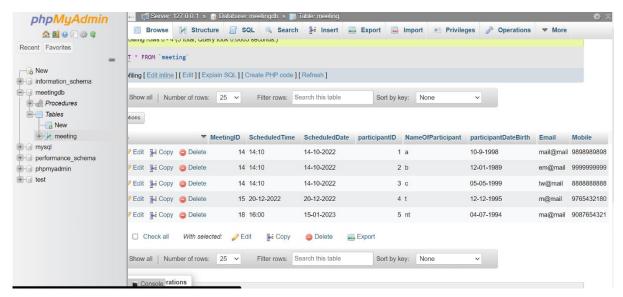
# Q2. Create a stored procedure that can be invoked to insert records to the table with proper data (5 records).

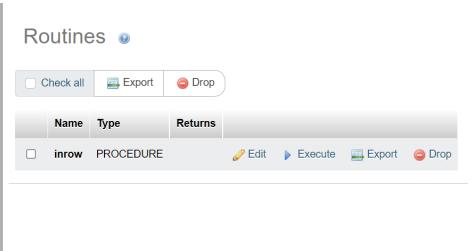
```
import java.sql.*;
import java.util.Scanner;
class Sample{
  public static void main(String[] args) {
    try{
      //Connect to database
      Class.forName("com.mysql.cj.jdbc.Driver");
```

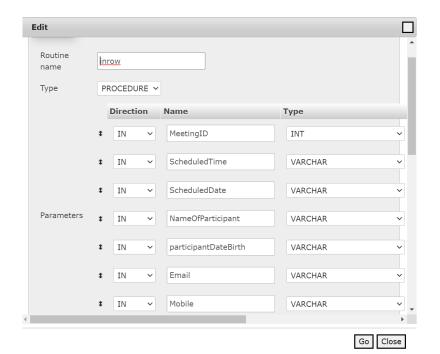
```
Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/meetingdb", "root", "");
    //Create Proccedure
    String query = "CREATE or REPLACE PROCEDURE `inrow` (MeetingID int,
ScheduledTime varchar(255), ScheduledDate varchar(10), NameOfParticipant varchar(255),
participantDateBirth varchar(10), Email varchar(255), Mobile varchar(10)) "+
    "BEGIN"+
    "INSERT INTO meeting (MeetingID, ScheduledTime, ScheduledDate,
NameOfParticipant, participantDateBirth, Email, Mobile) VALUES(MeetingID,
ScheduledTime, ScheduledDate, NameOfParticipant, participantDateBirth, Email, Mobile);
"+
    "END";
    Statement stmt = con.createStatement();
    stmt.execute(query);
    System.out.println("Procedure Created");
    // Input and insert
    Scanner obj = new Scanner(System.in);
    int mid;
    String scht, schd, np, pd, email, mob;
    CallableStatement stmtm = con.prepareCall("{call inrow(?,?,?,?,?,?)}");
    for (int i = 0; i < 5; i++) {
      System.out.println("MeetingId");
      mid = obj.nextInt();
      stmtm.setInt(1, mid);
      System.out.println("ScheduledTime");
      scht = obj.next();
      stmtm.setString(2, scht);
      System.out.println("ScheduledDate");
      schd = obj.next();
      stmtm.setString(3, schd);
      System.out.println("NameofPaticipant");
      np = obj.next();
      stmtm.setString(4, np);
      System.out.println("ParticipantDateBirth");
      pd = obj.next();
      stmtm.setString(5, pd);
      System.out.println("Email");
      email = obj.next();
      stmtm.setString(6, email);
      System.out.println("Mobile");
      mob = obj.next();
      stmtm.setString(7, mob);
```

```
stmtm.execute();
}
obj.close();
con.close();
}catch(Exception e){
    System.out.println(e);
}
}
}
Output:
```

```
Proccedure Created
MeetingId
14
ScheduledTime
14:10
ScheduledDate
14-10-2022
NameofPaticipant
ParticipantDateBirth
10-9-1998
Email
mail@mail
Mobile
9898989898
MeetingId
14
ScheduledTime
14:10
ScheduledDate
14-10-2022
NameofPaticipant
ParticipantDateBirth
12-01-1989
Email
em@mail
Mobile
```







Q3. Get the "MeetingID" from the user. Display the names of all the participants for the meeting with the given MeetingID on the console, preceded by the message, "Names of participants in meeting 1144".

```
Code:
import java.sql.*;
import java.util.Scanner;
public class App {
  public static void main(String[] args) throws Exception {
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/meetingDB",
"root", "");
    Statement statement = conn.createStatement();
    Scanner scanner = new Scanner(System.in);
    System.out.println("Enter the meeting ID: ");
    int meetingID = scanner.nextInt();
    scanner.close();
    String query = String.format("SELECT NameOfParticipant FROM Meeting WHERE meetingID
= %d;", meetingID);
    ResultSet resSet = statement.executeQuery(query);
    System.out.println(String.format("Names of participants in meeting %d: ", meetingID));
    while (resSet.next()){
       System.out.println(resSet.getString("NameOfParticipant"));
     }
  }
}
```



Q4. Insert a new participant using only the participant's name. Do not provide the "participantID". Determine the ID that was assigned to the new participant and display it on the console (the statement that displays the ID should display the name of the new participant as well).

#### Code:

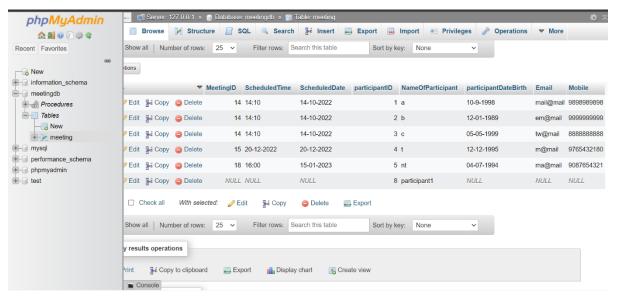
```
import java.sql.*;
import java.util.Scanner;
import javax.management.Query;
class Sample{
  public static void main(String[] args) {
   try{
    //Connect to database
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/meetingdb", "root", "");
    Scanner obj = new Scanner(System.in);
    System.out.println("Name");
    String name = obj.next();
    String query1 = "INSERT INTO meeting (NameOfParticipant) VALUES(?)",query2;
    PreparedStatement stmt = con.prepareStatement(query1);
    stmt.setString(1, name);
    stmt.execute();
    System.out.println("Query Executed");
    query2 = "SELECT * from meeting WHERE participantId =(SELECT
MAX(participantID) from meeting);";
    Statement stmtm = con.createStatement();
    ResultSet rs = stmtm.executeQuery(query2);
    while(rs.next()){
      System.out.println("Name: "+rs.getString(5)+" paticipantId: "+rs.getInt(4));
    obj.close();
    con.close();
    }catch(Exception e){
```

```
System.out.println(e);
}
}
```

## Output:

import java.sql.\*;

```
Name
participant1
Query Executed
Name: participant1 paticipantId: 8
C:\Users\laksh\OneDrive\Desktop\lakshit\college>
```



Q5. Count the number of people participating in the meeting with ID 1105. Display a message on the console that gives both the "MeetingID" and the number of participants.

```
import java.util.Scanner;
public class App {
    public static void main(String[] args) throws Exception {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection conn =
        DriverManager.getConnection("jdbc:mysql://localhost:3306/meetingDB", "root", "");
        Statement statement = conn.createStatement();
        int meetingID = 1105;
```

```
String query = String.format("SELECT NameOfParticipant FROM Meeting WHERE meetingID = %d;", meetingID);

ResultSet resSet = statement.executeQuery(query);
int count = 0;
while (resSet.next()){
    count++;
}

System.out.println(String.format("Meeting ID: 1105 || Participants: %d", count));
}

Output:
```

PS C:\projects\java\_project\_domestic\App\src> javac App.java
PS C:\projects\java\_project\_domestic\App\src> java App
Meeting ID: 1105 || Participants: 6



**Q6.** Determine the names of all who participate in meetings on Tuesdays. Display the names, preceded by the message, "Participants attending Tuesday meetings".

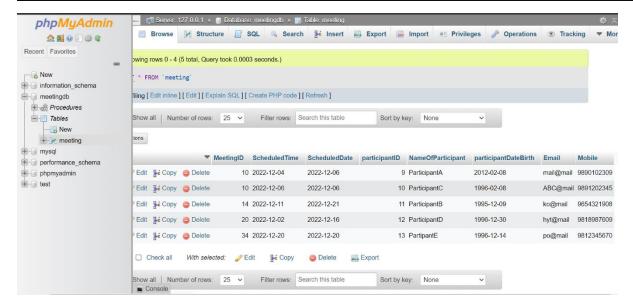
#### Code:

```
import java.sql.*;
class Sample{
  public static void main(String[] args) {
    try{
      //Connect to database
      Class.forName("com.mysql.cj.jdbc.Driver");
      Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/meetingdb", "root", "");
      Statement stmt = con.createStatement();
```

```
String query = "Select NameOfParticipant from meeting WHERE
WEEKDAY(ScheduledDate) = 1";
    ResultSet rs = stmt.executeQuery(query);
    System.out.print("Participants attending Tuesday's meeting ");
    while(rs.next()){
        System.out.print(rs.getString(1)+", ");
    }
    con.close();
} catch(Exception e){
        System.out.println(e);
}
Output:
```

```
C:\Users\laksh\OneDrive\Desktop\lakshit\college>javac Sample.java
C:\Users\laksh\OneDrive\Desktop\lakshit\college>java Sample
Participants attending Tuesday's meeting ParticipantA, ParticipantC, PartipantE,
C:\Users\laksh\OneDrive\Desktop\lakshit\college>
```



Q7. Create a function to get the "participantDateBirth", find the participant's age, and print it.

#### Code:

import java.sql.\*;

```
public class App {
  public static void main(String[] args) throws Exception {
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/meetingDB",
"root", "");
    Statement statement = conn.createStatement();
    String query = "SELECT NameOfParticipant FROM Meeting WHERE
WEEKDAY(ScheduledDate) = 1;";
    ResultSet resSet = statement.executeQuery(query);
    boolean remaining = resSet.next();
    if (!remaining){
       System.out.println("No participants attending Tuesday meeting");
     }
    else {
       System.out.println("Participants attending Tuesday Meeting: ");
       while (remaining){
         System.out.println(resSet.getString("NameOfParticipant"));
         remaining = resSet.next();
       }
     }
  }
}
Output:
```

←Τ	_→		~	MeetingID	ScheduledTime	ScheduledDate	participantID	NameOfParticipant	participantDateBirth	Email
	<i> </i>	<b>≩</b> Copy	Delete	1105	10:00	2022-12-06	1	John	1998-10-10	john@gmai
	Edit	<b>≩</b> Copy	Delete	1105	10:00	2022-12-06	2	Mary	2000-04-20	mary@gma
	Edit	<b>≩</b> Copy	Delete	1105	10:00	2022-12-06	3	Alex	1994-04-01	Alex@gmai
	<i> </i>	<b>≩</b> Copy	Delete	1105	10:00	2022-12-06	4	Anna	2000-08-01	Anna@gma
	<i> </i>	<b>≩</b> Copy	Delete	1105	10:00	2022-12-06	5	Harry	1996-02-10	Harry@gma
	<i> </i>	<b>≩</b> Copy	Delete	1105	10:00	2022-12-06	6	Kevin	1992-12-12	Kevin@gma