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### Langkah awal membuat database dengan MySQL

Extra options

						id	nama	harga	stok	
<input type="checkbox"/>		Edit		Copy		Delete	2	beras	Rp.50.000	15
<input type="checkbox"/>		Edit		Copy		Delete	1	minyak	Rp.12.000	10
<input type="checkbox"/>		Edit		Copy		Delete	4	sendal	Rp.13.000	8
<input type="checkbox"/>		Edit		Copy		Delete	3	shampo	Rp.5.000	20

☐ Check all    With selected: Edit    Copy    Delete    Export

### TUGAS KONEKSI DATABASE:

```
1 package database;
2 import java.sql.Connection;
3 import java.sql.DriverManager;
4 import java.sql.SQLException;
5
6 public class KoneksiDatabase {
7
8     public static void main(String[] args) throws ClassNotFoundException {
9         // TODO Auto-generated method stub
10
11         try {
12             Class.forName("com.mysql.cj.jdbc.Driver");
13         }
14
15         catch(ClassNotFoundException ex) {
16             System.out.println("MySQL JDBC Driver tidak ditemukan");
17             ex.printStackTrace();
18         }
19
20         System.out.println("MySQL JDBC Driver berhasil ditemukan");
21         Connection connection = null;
22
23         try {
24             Class.forName("com.mysql.cj.jdbc.Driver");
25             connection = DriverManager.getConnection("jdbc:mysql://localhost:3306/jualan","root","");
26         }
27
28         catch (SQLException ex) {
29             System.out.println("Gagal Membuat Koneksi");
30             ex.printStackTrace();
31         }
32     }
33 }
```

```
32     if(connection !=null) {
33         System.out.println("Selamat, Anda telah berhasil membuat koneksi ke database MySQL");
34     }
35     else {
36         System.out.println("Maaf, Anda gagal membuat koneksi");
37     }
38
39     try {
40         connection.close();
41     }
42     catch(SQLException ex) {
43         System.out.println("Gagal membuat koneksi");
44         ex.printStackTrace();
45     }
46 }
47
48 }
49 }
50
```

#### HASIL RUN:

```
MySQL JDBC Driver berhasil ditemukan
Selamat, Anda telah berhasil membuat koneksi ke database MySQL
```

#### TUGAS INSERT:

```

1 package database;
2 import java.sql.Connection;
3 import java.sql.DriverManager;
4 import java.sql.SQLException;
5 import java.sql.Statement;
6 import java.text.DateFormat;
7 import java.text.SimpleDateFormat;
8 import java.util.Date;
9
10 public class redemtusnahak_211552018153621 {
11     private static final String DB_DRIVER = "com.mysql.cj.jdbc.Driver";
12     private static final String DB_CONNECTION = "jdbc:mysql://localhost:3306/jualan";
13     private static final String DB_USER = "root";
14     private static final String DB_PASSWORD = "";
15
16
17     public static void main(String[] args) {
18         // TODO Auto-generated method stub
19         try {
20             insertTable();
21         }
22         catch (SQLException ex) {
23             ex.printStackTrace();
24         }
25     }
26
27     public static void insertTable() throws SQLException{
28         Connection connection = null;
29         Statement statement = null;
30         int count = 0;
31
32         String insertTableSQL = "INSERT INTO JUALAN" + "(id, nama, harga, stok)" + "VALUES"
33             + "(null, 'shampoo', 'Rp.5.000', '20'" + ")";
34
35         try {
36             connection = getDatabaseConnection();
37             statement = connection.createStatement();
38             System.out.println(insertTableSQL);
39
40             statement.executeUpdate(insertTableSQL);
41             count = statement.getUpdateCount();
42             System.out.println(count + "Record telah berhasil dimasukkan ke tabel PROFIL!");
43         }
44         catch (SQLException e) {
45             System.out.println(e.getMessage());
46         }
47         finally {
48             if (connection != null) {
49                 connection.close();
50             }
51         }
52     }
53
54     public static Connection getDatabaseConnection() {
55         Connection connection = null;
56
57         try {
58             Class.forName(DB_DRIVER);
59         }
60         catch (ClassNotFoundException e) {
61             System.out.println(e.getMessage());
62         }
63     }

```

```

64     try {
65         connection = DriverManager.getConnection(DB_CONNECTION, DB_USER, DB_PASSWORD);
66         return connection;
67     }
68     catch (SQLException e) {
69         System.out.println(e.getMessage());
70     }
71     return connection;
72 }
73 }
74
75

```

### HASIL RUN:

```

MySQL JDBC Driver berhasil ditemukan
Selamat, Anda telah berhasil membuat koneksi ke database MySQL

```

### TUGAS UPDATE:

```

1  package database;
2  import java.sql.Connection;
3  import java.sql.DriverManager;
4  import java.sql.SQLException;
5  import java.sql.Statement;
6
7  public class Update_Delete {
8      private static final String DB_DRIVER = "com.mysql.cj.jdbc.Driver";
9      private static final String DB_CONNECTION = "jdbc:mysql://localhost:3306/jualan";
10     private static final String DB_USER = "root";
11     private static final String DB_PASSWORD = "";
12
13     public static void main(String[] args) {
14         try {
15             updateRecord();
16         }
17         catch (SQLException ex) {
18             ex.printStackTrace();
19         }
20     }
21
22     public static void updateRecord() throws SQLException {
23         Connection connection = null;
24         Statement statement = null;
25         int recordCount = 0;
26
27         String updateTableQuery = "UPDATE JUALAN SET nama = 'minyak' WHERE harga = '1'";
28
29         try {
30             connection = getDatabaseConnection();
31             statement = connection.createStatement();
32             System.out.println(updateTableQuery);
33

```

```

34         statement.executeUpdate(updateTableQuery);
35         recordCount = statement.getUpdateCount();
36         System.out.println(recordCount + " record telah berhasil diupdate pada tabel JUALAN!");
37     }
38     catch(SQLException e) {
39         System.out.println(e.getMessage());
40     }
41     finally {
42         if (connection != null) {
43             connection.close();
44         }
45         if (statement != null) {
46             statement.close();
47         }
48     }
49 }
50
51 public static Connection getDatabaseConnection() {
52     Connection connection = null;
53
54     try {
55         Class.forName(DB_DRIVER);
56     }
57     catch(ClassNotFoundException e) {
58         System.out.println(e.getMessage());
59     }
60
61     try {
62         connection = DriverManager.getConnection(DB_CONNECTION, DB_USER, DB_PASSWORD);
63         return connection;
64     }
65
66     catch(SQLException e) {
67         System.out.println(e.getMessage());
68     }
69
70     return connection;
71 }
72

```

### HASIL RUN:

```

UPDATE JUALAN SET nama = 'minyak' WHERE harga = '1'
Table 'jualan.jualan' doesn't exist

```

### TUGAS DELETE:



```

1 package database;
2 import java.sql.Connection;
3
4
5
6
7 public class Delete {
8     private static final String DB_DRIVER = "com.mysql.cj.jdbc.Driver";
9     private static final String DB_CONNECTION = "jdbc:mysql://localhost:3306/jualan";
10    private static final String DB_USER = "root";
11    private static final String DB_PASSWORD = "";
12
13    public static void main(String[] args) {
14        // TODO Auto-generated method stub
15        try {
16            updateRecord();
17        }
18        catch(SQLException ex) {
19            ex.printStackTrace();
20        }
21    }
22
23    public static void updateRecord() throws SQLException {
24        Connection connection = null;
25        Statement statement = null;
26        int countRecordDeleted = 0;
27
28        String deleteTableQuery = "DELETE FROM jualan WHERE nama = '2' ";
29
30        try {
31            connection = getDatabaseConnection();
32            statement = connection.createStatement();
33            System.out.println(deleteTableQuery);
34
35            statement.executeUpdate(deleteTableQuery);
36            countRecordDeleted = statement.getUpdateCount();
37            System.out.println(countRecordDeleted + " record telah berhasil dihapus pada tabel jualan!");
38        }
39        catch(SQLException e) {
40            System.out.println(e.getMessage());
41        }
42        finally {
43            if (connection != null) {
44                connection.close();
45            }
46            if (statement != null) {
47                statement.close();
48            }
49        }
50    }
51
52    public static Connection getDatabaseConnection() {
53        Connection connection = null;
54
55        try {
56            Class.forName(DB_DRIVER);
57        }
58        catch(ClassNotFoundException e) {
59            System.out.println(e.getMessage());
60        }
61
62        try {
63            connection = DriverManager.getConnection(DB_CONNECTION, DB_USER, DB_PASSWORD);
64            return connection;
65        }
66
67        catch(SQLException e) {
68            System.out.println(e.getMessage());
69        }
70
71        return connection;
72    }
73 }

```

### HASIL RUN:

```
DELETE FROM jualan WHERE nama = '2'  
Table 'jualan.jualan' doesn't exist
```

### HASIL TABEL:

```
C:\xampp>cd mysql  
C:\xampp\mysql>cd bin  
C:\xampp\mysql\bin>mysql -u root  
Welcome to the MariaDB monitor.  Commands end with ; or \g.  
Your MariaDB connection id is 810  
Server version: 10.4.24-MariaDB mariadb.org binary distribution  
  
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
MariaDB [(none)]> use jualan;  
Database changed  
MariaDB [jualan]> select * from tabel_jualan;  
+-----+-----+-----+-----+  
| id  | nama  | harga  | stok |  
+-----+-----+-----+-----+  
| 2   | beras | Rp.50.000 | 15   |  
| 1   | minyak | Rp.12.000 | 10   |  
| 4   | sendal | Rp.13.000 | 8    |  
| 3   | shampo | Rp.5.000  | 20   |  
+-----+-----+-----+-----+  
4 rows in set (0.000 sec)
```