```
Dt: 19/3/2025
*imp
Batch Processing in JDBC:
 =>The process of collecting multiple queries as batch and executing on Database product
  at-a-time, is known as Batch Processing.
 =>Batch Processing Support only NonSelect queries, and which is also known as Batc
  Update processing.
 =>In realtime,the Batch Processing is performed using 'Statement'
 =>The following are some important methods related to barch processing:
    (a)addBatch()
    (b)executeBatch()
    (c)clearBatch()
(a)addBatch():
  =>addBatch()-method is used to add NonSelect-query to a batch.
  Method Signature:
  public abstract void addBatch(java.lang.String) throws java.sql.SQLException;
  syntax:
  stm.addBatch("NonSelect-Query");
(b)executeBatch():
  =>executeBatch()-method is used to execute all queries from the batch at-a-time.
  Method Signature:
  public abstract int[] executeBatch() throws java.sql.SQLException;
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syntax:
 int k[] = stm.executeBatch();
(c)clearBatch():
 =>clearBatch()-method will delete all queries from the batch and destroys the batch.
 Method Signature:
 public abstract void clearBatch() throws java.sql.SQLException;
 syntax:
 stm.clearBatch();
Ex:
Program: DBCon15.java
package test;
import java.util.*;
import java.sql.*;
public class DBCon15 {
     public static void main(String[] args) {
       Scanner s = new Scanner(System.in);
       try(s;){
         Class.forName("oracle.jdbc.driver.OracleDriver");
           Connection con = DriverManager.getConnection
      ("jdbc:oracle:thin:@localhost:1521:xe", "system", "tiger");
           Statement stm = con.createStatement();
           System.out.println("******Insert on Bank72******");
           System.out.println("Enter the AccNo:");
            Long accNo = Long.parseLong(s.nextLine());
           System.out.println("Enter the Name:");
           String name = s.nextLine();
           System.out.println("Enter the Balance:");
           float bal = Float.parseFloat(s.nextLine());
           System.out.println("Enter the AccType:");
           String accType = s.nextLine();
           stm.addBatch
```

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("insert into Bank72
values("+accNo+",'"+name+"',"+bal+",'"+accType+"')");
           System.out.println("*****delete on Customer72*****");
           System.out.println("Enter the Cust-PhoneNo to delete the
details:");
            Long pNo = Long.parseLong(s.nextLine());
           stm.addBatch
            ("delete from Customer72 where phno="+pNo+"");
           int k[] = stm.executeBatch();
           for(int i : k)
                 System.out.println("query executed : "+i);
           }//end of Loop
           stm.clearBatch();
       }catch(Exception e) {
         e.printStackTrace();
      }
}
o/p:
******Insert on Bank72
Enter the AccNo:
434343123
Enter the Name:
RTE
Enter the Balance:
1200
Enter the AccType:
Savings
*****delete on Customer72****
Enter the Cust-PhoneNo to delete the details:
```

9898981234	
query executed : 1	
query executed : 1	
faq:	
wt is the diff b/w	
(i)Batch Processing	
(ii)Procedures	
=>Batch Processing will execute only NonSelec	t-Queries,but using Procedures we can execute
both 'Select and NonSelect Queries'	
=>when we use Batch Processing the execution	load is on Server,but when we use Procedures
then execution load is on Database.	
faq:	
define MetaData?	
=>The data which is holding information abou	ıt other data is known as MetaData.
=>JDBC will provide the following MetaData o	components:
1.DatabaseMetaData	
2.ParameterMetaData	
3.ResultSetMetaData	
1.DatabaseMetaData:	

=>DatabaseMetaData is an interface from java.sql package and which is instantiated to

hold information about Connection-Object.
syntax:
DatabaseMetaData dmd = con.getMetaData();
2.ParameterMetaData:
=>ParameterMetaData is an interface from java.sql package and which is instantiated to hold
information about PreparedStatement-Object.
synatx:
ParameterMetaData pmd = ps.getParameterMetaData();
3.ResultSetMetaData:
=>ResultSetMetaData is an interface from java.sql package and which is instantiated to
hold information about ResultSet-Object
syntax:
ResultSetMetaData rsmd = rs.getMetaData();
Diagram:



