

Create the following tables using standard credentials :-

tbl_author_empid (author_id number(5) PK, author_name varchar(100), contact number (12), city varchar(100), royalty number (7,3))

tbl_book_empid (book_id number(5) PK, title varchar(200), price number (7,3), pages number (5))

tbl_book_author_empid (author_id FK, book_id FK) (Combined PK)

Insert few records in this table (Manually. Not through JDBC).The data as:

tbl_book_empid:

BOOK_ID	TITLE	PRICE	PAGES
101	The Immortals of Meluha'	250.5	436
102	Midnight's Children'	324	647
103	The Secret of the Nagas'	250	398
104	Fury'	315	259
105	Harry Potter and the Philosopher's Stone'	750	336
106	Harry Potter and the Chamber of Secrets'	650	300
107	Revolution 2020'	345.75	296
108	Five Point Someone'	269	270

tbl_author_empid:

AUTHOR_ID	AUTHOR_NAME	CONTACT	CITY	ROYALTY
1001	Amish Tripathi'	9988776655	Mumbai'	2.5
1002	Salman Rushdie'	7575757575	London'	4
1003	J.K Rowling'	8989898989	London'	5
1004	Chetan Bhagat'	9191809234	Mumbai'	2.75

tbl_book_author_empid:

AUTHOR_ID	BOOK_ID
1001	101
1001	103
1002	102
1002	104
1003	105
1003	106
1004	107
1004	108

Create Java classes as per below templates and instructions in package com:

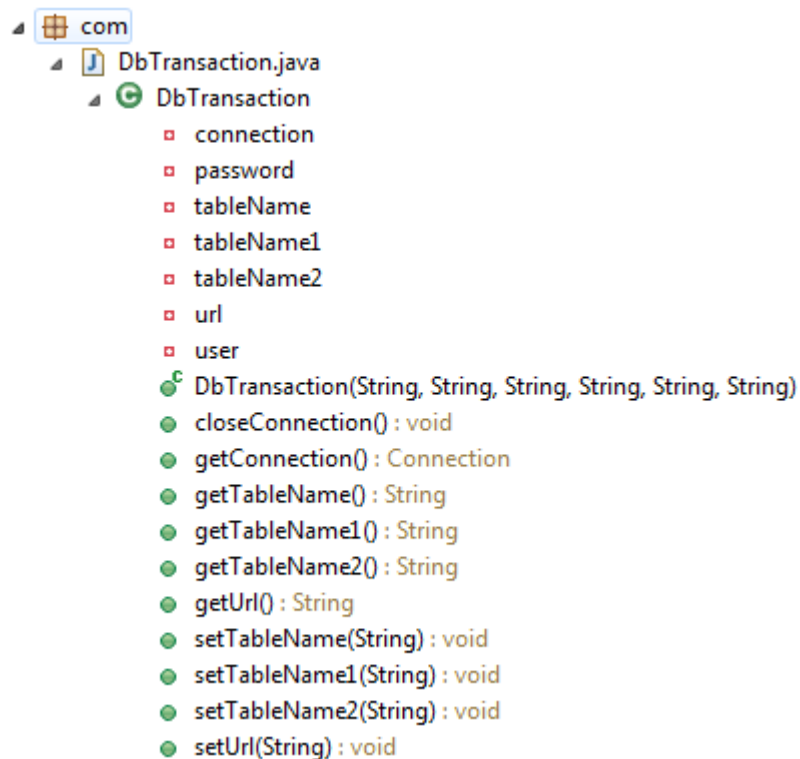
DBTransaction class:

This class has attributes – url, tableName, tableName1, tableName2, connection, user and password.

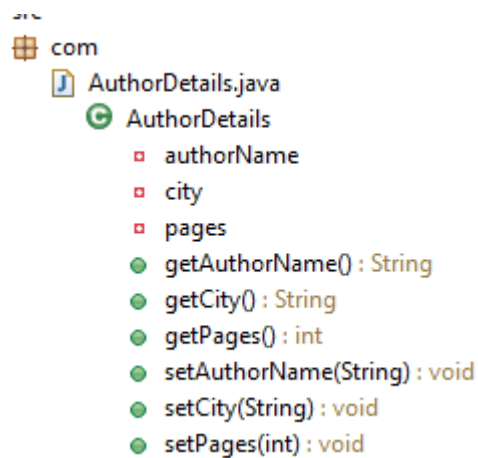
The constructor will take parameters as below sequence:

url, user, password, tableName, tableName1, tableName2

getConnection and closeConnection should be implemented as per code shared at the end of the question.



AuthorDetails Class: this class will have three attributes – authorName, city and pages. It will work as bean class.

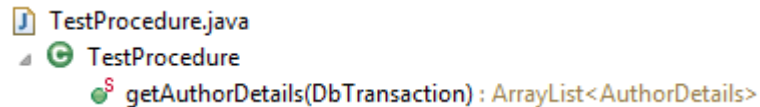


TestProcedure class:

This class has one method.

getAuthorDetails:

This method will take DbTransaction object. It will return all records Author name, city, **total pages written** from the tables. Records are returned as ArrayList of AuthorDetails class.



```
TestProcedure.java
└─ TestProcedure
    └─ getAuthorDetails(DbTransaction) : ArrayList<AuthorDetails>
```

main method: Create the main method in the Demo Class.

Create DbTransaction class object with all parameters and test above method (passing DbTransaction object) from main method.

Also make the following methods in the Demo Class:-

- (a) Create method :- This method will take DbTransaction object. This method will create the table of the required emp id, do the insertion of some random data.
- (b) clean up method :- This method will take DbTransaction object. This method will delete the table through the clean up call.

Note: 1. Call the cleanup() in the finally block of the main method.

Submit all Java files in iASCERT tool for assessment.

Code for getConnection() method:

```
public Connection getConnection()
{
    try {
        closeConnection();
        Class.forName("oracle.jdbc.driver.OracleDriver");
        connection = DriverManager.getConnection(url,user,password);
    } catch (SQLException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    } catch (ClassNotFoundException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
    return connection;
}
```

Code for closeConnection() method:

```
public void closeConnection()
{
    try
    {
        if(connection != null && connection.isClosed() == false)
            connection.close();
        connection = null;
    }
    catch(SQLException e)
```

```
{  
  e.printStackTrace();  
}
```