

Homework 5

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```
package homework5;

import java.sql.*;

public class query {

    public static void main( String[] args ) {

        Connection conn = null;
        Statement stmt = null;
        /*****
        * determine if the JDBC driver exists and load it...
        *****/
        System.out.print( "\nLoading JDBC driver...\n\n" );
        try {
            Class.forName("oracle.jdbc.OracleDriver");
        }
        catch(ClassNotFoundException e) {
            System.out.println(e);
            System.exit(1);
        }

        /*****
        * establish a connection to the database...
        *****/
        try {
            System.out.print( "Connecting to ACADPRD0 database...\n\n" );
            conn =
DriverManager.getConnection("jdbc:oracle:thin:@acadoradbprd01.dpu.depaul.edu:1521:ACA
DPRD0", "KHE11", "cdm1886997");
            System.out.println( "Connected to database ACADPRD0..." );

            /*****
            * create an object by which we will pass SQL stmts to the
            database...
            *****/

            stmt = conn.createStatement();
        }
        catch (SQLException se) {
            System.out.println(se);
            System.exit(1);
        }

        try {

            /*****
            * create the new table...
            *****/
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*****/

/*****
    * finally, display all the rows in the database...
*****/

    ResultSet rset = stmt.executeQuery( "SELECT PartNo,
Round(Sum((ArriveDate - ShipDate + 1))/Count(PartNO)) as
AverageNumberPartInTransit\r\n" +
        "    FROM Shipments\r\n" +
        "    group by PartNo\r\n" +
        "    order by partNo");
    System.out.println("PartNo : AverageNumberPartInTransit ");
    while( rset.next() ) {
        System.out.println( rset.getString("PartNo") + ":      " +
rset.getString("AverageNumberPartInTransit") );
    }
    ResultSet rsetTwo = stmt.executeQuery("select ProjectNo,Sum(Quantity)
AS QuantityPerProjectIn2017\r\n" +
        "From Shipments\r\n" +
        "where extract(year from ShipDate) = 2017 OR extract(year
from ArriveDate) = 2017\r\n" +
        "GROUP BY ProjectNo\r\n" +
        "order by ProjectNo");
    System.out.println("\n\nProjectNo : QuantityPerProjectIn2017 ");
    while( rsetTwo.next() )
        System.out.println( rsetTwo.getString("ProjectNo") + ":
" + rsetTwo.getString("QuantityPerProjectIn2017") );
    rset.close();
    rsetTwo.close();
    stmt.close();
    conn.close();

}
catch (SQLException se) {
    System.out.println( "SQL ERROR: " + se );
}

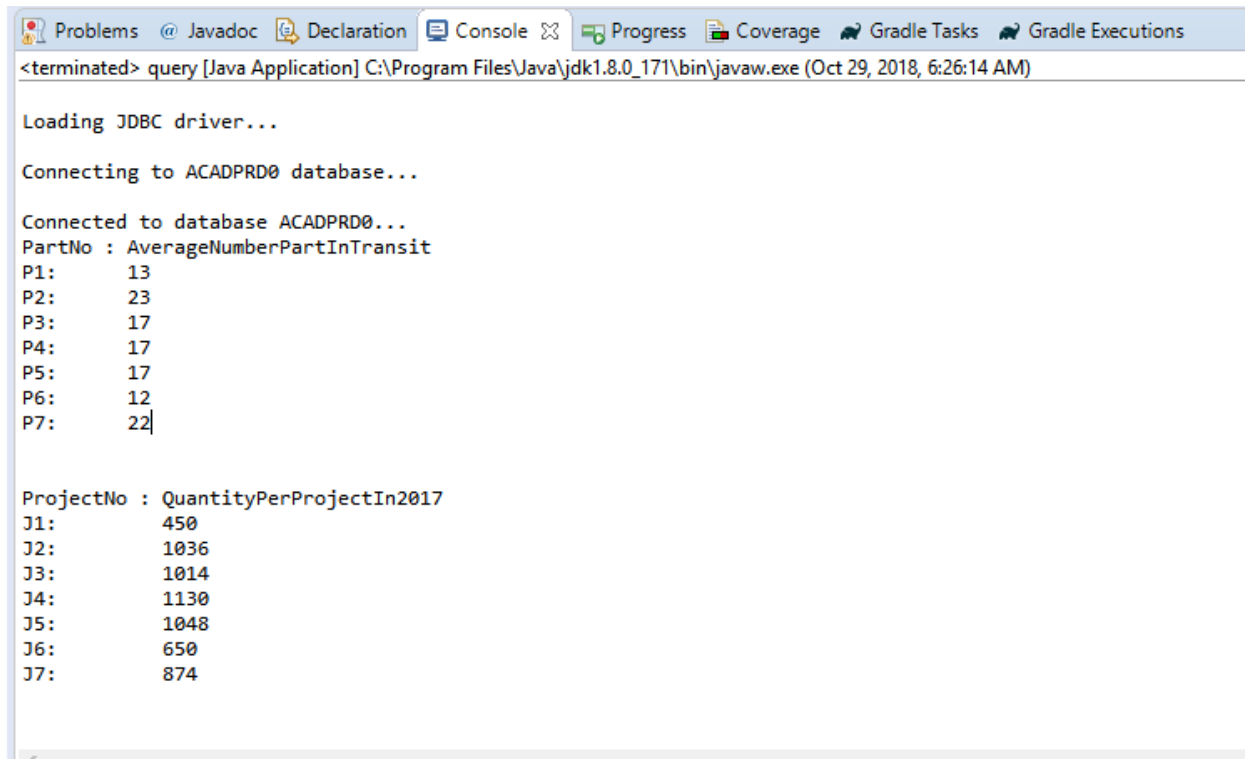
} // end main

}

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The screenshot shows an IDE console window with the following tabs: Problems, Javadoc, Declaration, Console, Progress, Coverage, Gradle Tasks, and Gradle Executions. The console output is as follows:

```
<terminated> query [Java Application] C:\Program Files\Java\jdk1.8.0_171\bin\javaw.exe (Oct 29, 2018, 6:26:14 AM)

Loading JDBC driver...

Connecting to ACADPRD0 database...

Connected to database ACADPRD0...
PartNo : AverageNumberPartInTransit
P1:      13
P2:      23
P3:      17
P4:      17
P5:      17
P6:      12
P7:      22

ProjectNo : QuantityPerProjectIn2017
J1:      450
J2:      1036
J3:      1014
J4:      1130
J5:      1048
J6:      650
J7:      874
```