**ASSIGNMENT – 2**

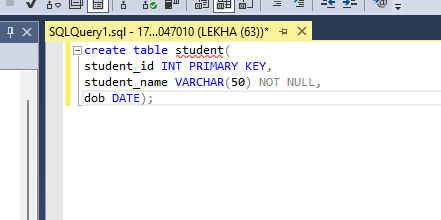
**Name –** Lekha J

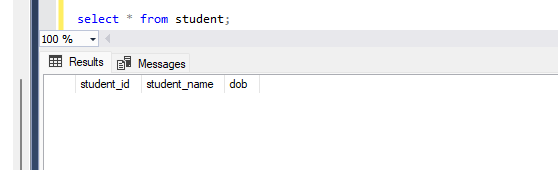
**Roll number –** 231047010

**Objective** : Familiarization with DDL and DML; usage of Stored Procedure in Application

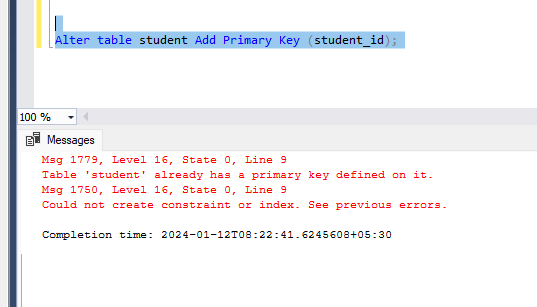
1. Work on the important DDL and DML constructs
2. Submit your work illustrating usage of Restrictions around PK and FK definitions; usage of Cascade functionality, Group by, Order By, IN constructs of DML
3. Modify your Java application demonstrate
   1. Usage of the Stored Procedure
   2. Significance of closing the Connection in finally block

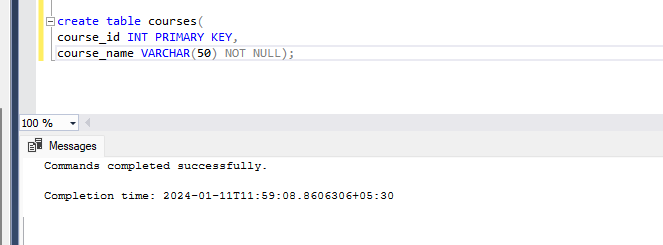
Create table Student

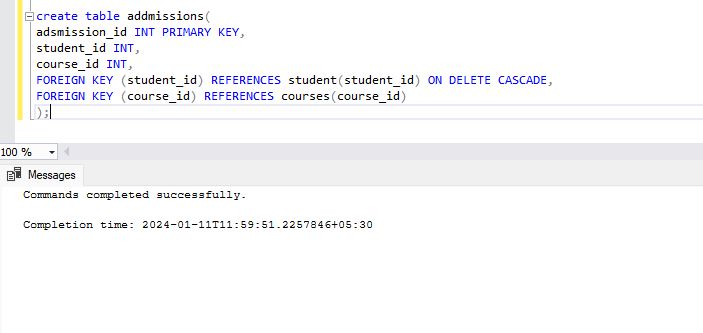
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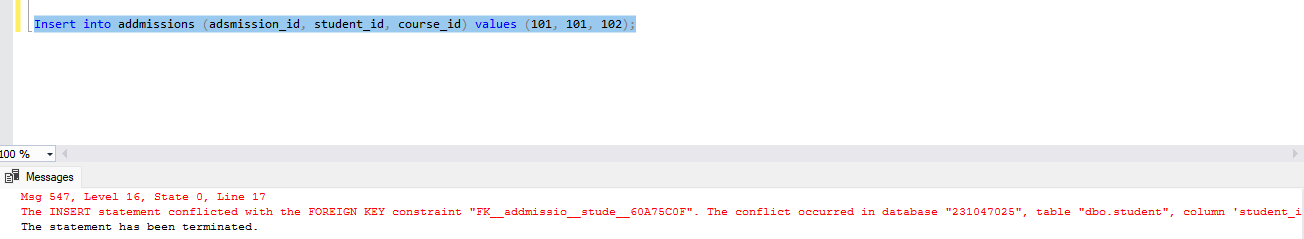
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Primary key Constraint





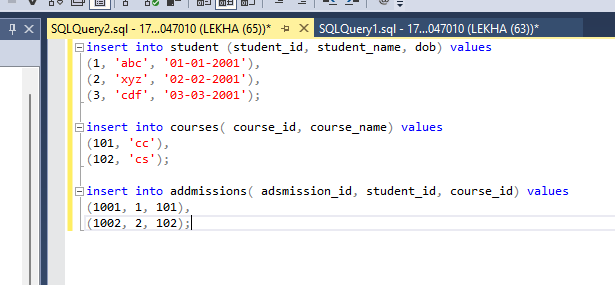




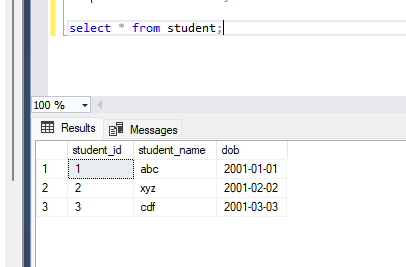
Insert into student tabl

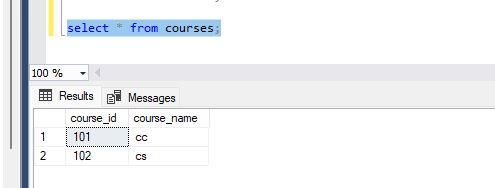
Insert into course table

Insert into admission table

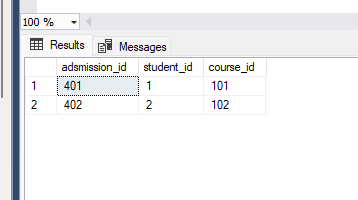


Student table contains:

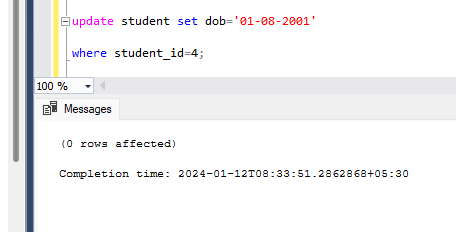


Courses table contains: 

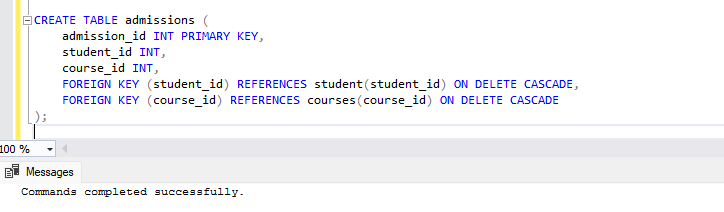
Admission table contains:

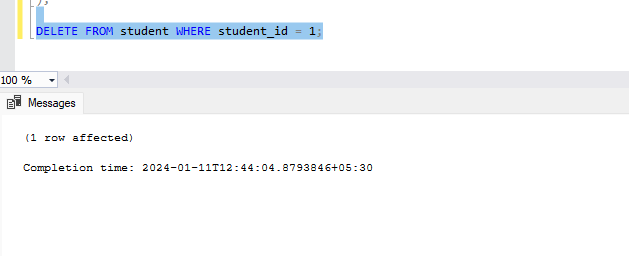


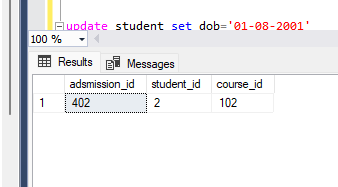
Update value in student table:



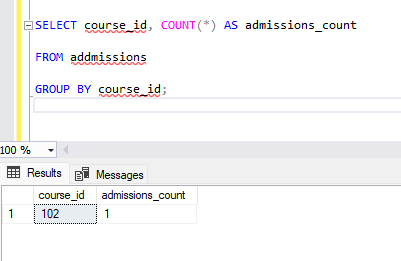
Cascade



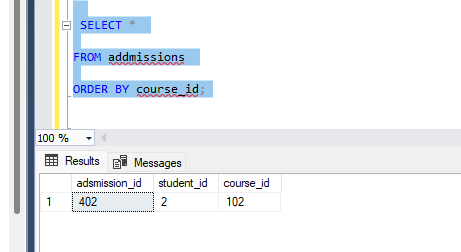




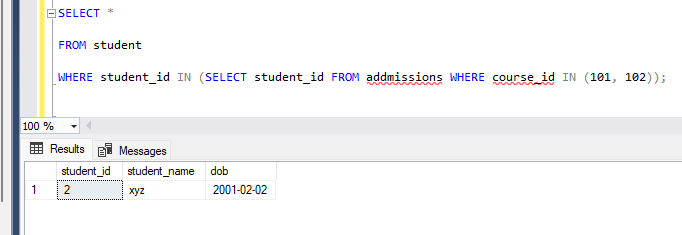
Group by:



Order by



IN



**Usage of Finally**

Closed the connection in try block and inserted a wrong query. When there is error, the connection won’t be close hence finally is used.

package lekha;

import java.util.\*;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

public class DayCare {

private static final Connection NULL = null;

public static void main(String args[]) {

Connection con = NULL;

Scanner sc = new Scanner(System.in);

System.out.println("Book Details");

try {

String url="jdbc:sqlserver://172.16.51.64;"+" "+"databaseName=231047010;encrypt=true;trustServerCertificate=true";

String username="lekha";

String password="lekha@321";

con=DriverManager.getConnection(url,username,password);

System.out.println("Connection established");

System.out.println("Enter the ID of the book");

int word = sc.nextInt();

System.out.println("Enter the name of the book");

String name=sc.next();

System.out.println("Enter the price");

int cost = sc.nextInt();

*PreparedStatement stmt = con.prepareStatement("INSERT INTO BookMaster values(?,?)");*

stmt.setInt(1, word);

stmt.setString(2, name);

stmt.setInt(3, cost);

System.out.println("Added succeesfully");

stmt.executeUpdate();

*con.close();*

}catch(Exception e) {

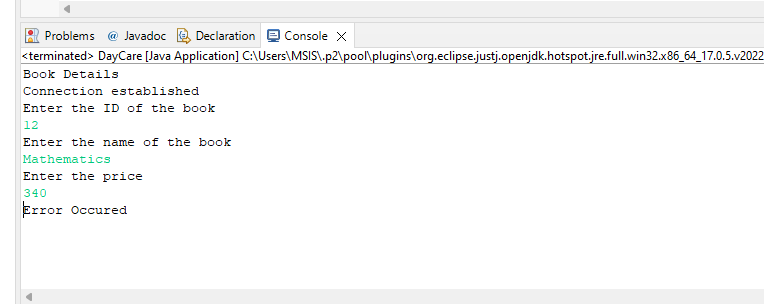
System.out.println("Error Occured");

}

}

}

OUTPUT:



**Solution:**

package lekha;

import java.util.\*;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

public class DayCare {

private static final Connection NULL = null;

public static void main(String args[]) {

Connection con = NULL;

Scanner sc = new Scanner(System.in);

System.out.println("Book Details");

try {

String url="jdbc:sqlserver://172.16.51.64;"+" "+"databaseName=231047010;encrypt=true;trustServerCertificate=true";

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con=DriverManager.getConnection(url,username,password);

System.out.println("Connection established");

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int word = sc.nextInt();

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PreparedStatement stmt = con.prepareStatement("INSERT INTO BookMaster values(?,?,?)");

stmt.setInt(1, word);

stmt.setString(2, name);

stmt.setInt(3, cost);

System.out.println("Added succeesfully");

stmt.executeUpdate();

}catch(Exception e) {

System.out.println("Error Occured");

} finally {

try {

if(con != null) {

con.close();

System.out.println("Connection Closed");

}

} catch (Exception e) {

e.printStackTrace();

}

}

}

}

