

CS 301P Database Systems Lab

Database Transactions Programming using JDBC

The objective of this lab is to learn how do database transactions programming using JDBC. JDBC is a database programming interface based on Java. Using JDBC, complete applications can be built that will do all the CRUD operations using JDBC. Transactions ensure integrity of insert, update and delete statements.

Tasks to be completed

A) Download JdbcTransactionsDemo.java

Download the JdbcTransactionsDemo.java.

Study how and where commit and rollback statements are used.

Modify the userid/password and INSERT statement to make it work.

B) Implement a simple 2 statement transaction

Implement a transaction involving the following two operations:

1. Insert a new employee
2. Update the supervisor to the SSN of the new employee added

C) What to upload

- a) Screen shot showing successful COMMIT
- b) Screen shot showing rollback because invalid SSN is given in Update statement
- c) Screenshot showing fname and lname in employee table (It should NOT contain the new employee record)

Put all three screenshots in one PDF document and upload the same. Name the file as rollno_transactions.pdf