Transaction Processing Final Project Report

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**Software:**

Java-Eclipse, JDBC, MySQL Workbench, TomCat and Toad Edge

**Database:**

MySQL Database

**Project description:**

This code is for a bookstore system. Two tables were created. The first table is “branchs”.It is for a bookstore’s information. The second table is “sellers”. It is for a publisher’s information.

In this project, I created three “.jps” websites, and they are “BranchWeb”, ”PublisherWeb” and ”BuyerWeb”. When a bookstore staff enters “BranchWeb”, the staff can get information for books’ stocks, names and prices. When a publisher staff enters ”PublisherWeb”, the staff can get information for both a publisher and a branch store. These information are book ids for a publisher, book names for a publisher, prices for a publisher, prices for a branch store, stocks for a branch store and names for a branch store. When customers enter ”BuyerWeb”, they can order books.

**Database Schema:**

|  |  |
| --- | --- |
| ***Branchs*** | |
| **Colum Name:** | **Type:** |
| saleprice | double(20,0) |
| stock | int |
| name | varchar(255) |
| version | int |

|  |  |
| --- | --- |
| ***Sellers*** | |
| **Colum Name:** | **Type:** |
| name | varchar(255) |
| id | int |
| price | double(20,0) |

Scripts for Creating Tables:

CREATE TABLE onlineide.sellers

(

id INT(20) NULL,

name VARCHAR(255)

CHARACTER SET utf8mb4

COLLATE utf8mb4\_0900\_ai\_ci

NOT NULL,

price DOUBLE(20, 2) NOT NULL,

PRIMARY KEY(name)

);

CREATE TABLE onlineide.branchs

(

saleprice DOUBLE(20, 0) NOT NULL,

stock INT(20) NOT NULL,

name VARCHAR(255)

CHARACTER SET utf8mb4

COLLATE utf8mb4\_0900\_ai\_ci

NOT NULL,

version INT(20) NOT NULL,

CONSTRAINT `FK\_branchs\_1` FOREIGN KEY(name)

REFERENCES sellers (name) ON UPDATE RESTRICT ON DELETE RESTRICT,

PRIMARY KEY(name)

);

Eclipse Setup:

* create new package: finalproject1.bookstore
* create class in “src”:BranchDAO, SellerDAO, BuyerDAO
* create web jsp: PublisherWeb, BranchWeb, BuyerWeb