Lab 03

Database Update Operations

IT615 Database Management System, Autumn'2021; pm_jat @ daiict

In this lab, you practice some database INSERT, UPDATE, and DELETE operations.

Exercise #1

Let us say we extend "Sales" database with some additions shown as in modified description of Lab02; shown in RED color.

```
customer(cust_id, name, city, state, pin, email)
   -- a tuple of this relation represents a customer
   -- Let cust id be the Primary Key
items(item code, item name, category id, saleprice, qty in stock,
reorderlevel (int), averagepurchaseprice (int) );
   -- a tuple of this relation represents an item
   -- Let item code be Primary Key
invoice(invno, invdate, customerid)
   -- a tuple of this relation represents an invoice
   -- Let invno be the Primary Key
   -- customerid is a foreign key referring into customer table
invoicedetails(invno, itemcode, qty, price)
   -- used to record details of an invoice; a tuple of this
   -- relation represents an item entry for an invoice
   -- invno is a foreign key referring into invoice table
   -- itemcode is a foreign key referring into item table
   -- Let {invno, itemcode} jointly be the Primary Key
```

Do following:

- Write down SQL statements for performing operations listed below.
- Run them on your server. If you find them correct and doing what is expected to do. Save all SQL statements in a text file for submission.
 - 1. Add 5 customers
 - 2. Add 10 items
 - 3. Add 5 invoices
 - 4. Add 2-4 items in all invoices
 - 5. Update price of given item
 - 6. Give 10% increment to all items
 - 7. Give 5% increments to all items for category = 2
 - 8. Delete a given item from items item code = 11101
 - 9. Delete a given customer = 101
 - 10. Delete all invoices of a given state '2019-12-11'; this should also delete all items of affected invoices

Submission Require: a text file containing SQL statements for all queries.

Exercise #2

Understanding DDL script of DA-Acad database schema from: http://intranet.daiict.ac.in/~pm_jat/acad_ddl.sql

Create the Schema diagram for this database!

Does not require submission