Book Exercises

Examples with numbering are to be implemented from the ebook (MySQL Stored procedure Programming, O'Reilly)

1. Q(example 11.2) : This example is divided in three categories : Insert, Update and Delete
   Insert
   a. Write a trigger which updates the sale value if customer already exists else create new entry of customer.
   b. Update : If the customer is updating , WAT to update the sales value by incrementing the Sale_vale field
   c. Delete : If the customer is deleting , WAT to update the sales value by decrementing the Sale_vale field

2. Q(example 11.4) Wirte a program to create trigger signal to restrict entering negative value in balance.

3. Q(example 11.5) Write a trigger to perform data validation using select statement.

4. Q(figure 2.17) :write a example to create a sales table whichprovides free shipping on orders above 500

Transaction

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5. Q(example 8.1) : Create a procedure to commence a transaction using auto commit.
6. Q(example 8.2) : Create a procedure to commence a transaction using start transaction.
7. Q(example 8.3) : create a procedure which displays use of Savepoint with a transaction

Do it Yourself

1) Write a Trigger that stores the old data table of student table in student_backup while updating the student table.
Student_backup (Stud_ID, Stud_name, Address, Contact_no, Branch, Operation_date) Student (Stud_ID, Stud_name, Address, Contact_no, Branch)
2) Write a trigger, that ensures the empno of emp table is in a format 'E00001' (empno must start with 'E' and must be 6 characters long). If not, than complete empno with this format before inserting into the employee table.
3) Write a trigger which checks the age of employee while inserting the record in emp table. If it is negative than generate the error and display proper message.
4) Write a trigger which converts the employee name in upper case if it is inserted in any other case. Change should be done before the insertion only.

5) WAT that stores the data of emp table in emp_backup table for every delete operation and store the old data for every update operation.

EMP(Empno, Empname, salary);
Emp_Backup(Empno,Empname,Date_of_operation,Type_of_operation (i.e.update or delete));
6) WAT which display the message 'Updating','Deleting' or 'Inserting' when Update, Delete or Insert operation is performed on the emp table respectively.
7) WAT which generate an error if any user try to delete from product_master table on weekends (i.e. Saturday and Sunday).

8) We have two tables student_mast and stu_log. student_mast have three columns STUDENT_ID, NAME, ST_CLASS. stu_log table has two columns user_id and description. WAT which inserts the student details in stu_log table as soon as we promote the students in student master table(e.g. when a student is promoted from sem 2 to 3, auto entry in log table)

9) WAT to calculate the Income Tax amount and insert it in emp table. EMP(emp_no,emp_name, emp_income, income_tax);

If emp_income <100000 and >=50000 then incometax = 10%
If emp_income <200000 and >=100000 then incometax = 15%
If emp_income <300000 and >=200000 then incometax = 20%