

CS532 Project 2

Group Report

Group Members:

1. Samarth Parikh
2. Chetan Patil

Procedures Implemented in project:

1. employee_Report :

- This procedure takes the employee ID of the existing customer and show sale details of that employee. Details such as employee id, employee name, the month, the year, the total number of times the employee made sales each month, the total quantity sold by the employee each month, and the total dollar amount sold by the employee each month.
- procedure returns the cursor with data.

2. insert_purchases:

- The procedure takes parameters employee id, purchase id, customer id and Quantity of the products that customer wants to buy. Procedure will add entry to the purchase table.

3. addCustomer :

- The procedure will be called when new customers need to be added manually.
- Procedure will take the input such as customer id, Customer name and telephone#.
- Visits made and last_visit_date of the new customer will be initialize to 1 and current date respectively in the procedure.
- Procedure will check for the existing customer first and then add the new customer.

4. delete_purchase:

- When the customer returns the product we need to delete the purchase by calling this method.
- The procedure will take parameter purchase ID and remove the purchase corresponding to that ID.
- In addition, las_visit_date of the customer will be set to current date and visits_made will be increase by one.

Functions Implemented in project:

1. getproducts

- This function will get the current data of the products table and return the cursor.

2. getpurchases

- This function will get the current data of the purchases table and return the cursor.

3. getcustomers

- This function will get the current data of the customers table and return the cursor.

4. getemployees

- This function will get the current data of the employees table and return the cursor.

5. getlogs

- This function will get the current data of the logs table and return the cursor.

6. getsuppliers

- This function will get the current data of the Suppliers table and return the cursor.

7. getsupplies

- This function will get the current data of the supplies table and return the cursor.

8. getdiscount

- This function will get the current data of the discount table and return the cursor.

9. getSaving

- This function will take the parameter purchase ID and returns the total savings done from that purchase.

Triggers Implemented in the project:

1. qoh_on_products

- This trigger fires when there is insert in the purchase table. This will reduce the quantity of the products by purchase quantity. Also, last_visit_date and visits_made of the customer will also be handled by this trigger.

2. delete_purchases

- The trigger fires when we delete the purchase from purchase table. This will increase the product quantity accordingly and put it in consistent state. Also, last_visit_date and visits_made of the customer will also be handled by this trigger.

3. updateThresholdTrigger

- The trigger fires when quantity on hand of the product will go below the threshold value.
- Trigger called supplier to supply the product quantity. Supplied product quantity will be added to the products table.

4. log_insert_customer

- The trigger fires when any insert on customer table occurs. Trigger adds the details such as what operation is performed at that time and who performed the operation to the Logs table.

5. log_insert_purchase

- The trigger fires when any insert on purchase occurs and add details to logs table.

6. log_insert_supplies

- The trigger fires when any insert on supplies occurs and add details to logs table.

7. log_update_customer

- The trigger fires when any update on customer occurs and add details to logs table.

8. log_update_product

- The trigger fires when any update on qoh of product occurs and add details to logs table.

Team member responsibilities

Samarth :

- Created procedures: delete_purchase, employee_Report
- Created Functions: getproducts, getpurchases, getcustomers, getemployees, getlogs, getsuppliers, getsupplies, getdiscount
- Created triggers: delete_purchases, updateThresholdTrigger, log_insert_customer, log_insert_purchase, log_insert_supplies, log_update_customer, log_update_product
- Created sequences: pur_seq,log_seq,sup_seq
- Primary Responsible for exception handling.

Chetan:

- Created procedures : insert_purchase, addCustomer
- Created Functions : getSaving
- Created Triggers: qoh_on_products
- Primary responsible for Java programs and merging of java programs.
- Created the User Interface in java with NetBeans IDE.
- Responsible for Documentation.

Team Meetings:

- Discussed and implemented projects during weekends (4 days) and whole winter break of 5 days.
- Worked 6 to 7 hours per day.
- Total hours worked: (9 days) * (6 hours)

Experience:

- We learned triggers, cursors and stored procedures very well.
- Integration and merging part of the project was also challenging and taught us to work in coordination.