



**SSN COLLEGE OF ENGINEERING**  
**Department of**  
**Computer Science &**  
**Engineering**

**Faculty:**

**Dr. P.Mirunalini, Asso. Prof.**  
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**CS8481 – DBMS Lab**

**Assigned: 12-May-22**

**Assignment – 7**

**Due: 1 Lab Hour**

**Title: PL/SQL – Triggers**

Consider the following relations for the Bakery database:

**CUSTOMERS** (cid, fname, lname)

**PRODUCTS** (pid, flavor, food, price)

**RECEIPTS** (rno, rdate, cid, amt)

**ITEM\_LIST** (rno, ordinal, item)

**Note:**

- Use implicit/explicit cursor wherever required.
- Handle the error and display appropriate message if required.
- Add a column **amt** to Receipts relation.

Write a PL/SQL Trigger for the following:

- The combination of Flavor and Food determines the product id. Hence, while inserting a new instance into the *Products* relation, ensure that the same combination of Flavor and Food is not already available.
- While entering an item into the *item\_list* relation, update the amount in *Receipts* with the total amount for that receipt number.
- Implement the following constraints for *Item\_list* relation:
  - A receipt can contain a maximum of five items only.
  - A receipt should not allow an item to be purchased more than thrice.

**What you have to submit:**

- Schema Diagram with constraints
- Demo script file

