# Database I – CSE5330

# Nisa Management System

## Lakshmi Meghana 1001417274

## Shripal Shah 1001238188

Phase 2

**Nisa Management System** is a web management system aimed for the business owner(s) to manage business by tracking orders, employees, and customers.

It will also allow the owner to monitor employee’s progress and add bonuses for every order placed. This app will motivate employee to stay on top of their game by being incentivized for every order placed by them or by the customers they introduce.

***Relational Algebra query***

1. List the products ordered by the customers.

Product\_order = product x order

Potable <- Product\_item\_no=O\_product\_item\_no) (Product\_order)

Temp= ProductxPotable

Temp2 <- S\_product\_id=Product\_id (Temp)

Result <- Product\_name, Product\_size, Product\_cost  (Temp2)

2. Get the name and cost of the products whose size is L.

Product\_Cost = Product x Size\_cost

Temp <- Product\_size==’L’) &&(S\_product\_id=Product\_id) (Product\_Cost)

Result <- Product\_cost,Product\_name(Temp)

3. List the customers who have placed orders.

Customer\_Order = Customer x Order

Temp <- (customer\_id=O\_customer\_id) (Customer\_Order)

Result <- L\_name, F\_name (Temp)

4. Display the Employees whose customers placed orders for greater than $10000.

Relation= Orders x Employee\_Customers

Temp <-O\_Customer\_id=Customer\_id ) &&(Order\_cost>10000) (Relation)

Temp2= Temp x Employee

Result <- F\_name, L\_name (Temp2)

5. Display an order details and product details for a customer whose id is c009

Temp1 = Size\_Cost x Order

Temp2 <-  O\_customer\_id=’c009’) (Temp1)

Temp3 <- Product x Temp2

Result <-  Product\_name, Order\_quantity, Order\_cost, Product\_size (Temp3)

6. Display the product details and the sales cost in USD ordered by the customer c001.

Temp1 = Size\_cost x Order

Temp2 <-  O\_customer\_id=’c001’)(Temp1)

Temp3 <-Product x Temp2

Result <-  Product\_name, Product\_size, Order\_cost (TEMP3)

7 Display the customer’s and order’s details where order quantity in more than 5000 piece.

Customer\_Order = Customer x Order

Temp1 <-Order\_quantity>5000)&&(Customer\_id=O\_customer\_id)(customer\_order)

Temp2 <- product x temp

Result <- L\_name, F\_name, Order\_quantity, Product\_name, Order\_cost(Temp2)

8 Display the customer who hasn’t placed any order.

Customer\_Order = Customer x Order

Temp <-  (Customer\_id<>O\_customer\_id) (Customer\_Order)

Result <- Customer\_id, L\_name, F\_name (Temp)

9 Calculate the average of total incentives

ℑ AVERAGE Incentive\_amt (Incentive)

10. Calculate the Sum of sale costs of total products ordered by customer c006

Temp <- O\_customerid='c006') (Order)

ℑ SUM Order\_cost (Temp)

11. Display Ordered product’s Product name, Product\_item\_no, cost, product id whose size is ‘S’

Product\_Cost = Order\_table x Size\_cost

Product1 <- c.Product\_size=’S’ && Product\_item\_no=Product\_item\_no (Product\_Cost)

Product2= Product1 X Product

Result <- Product\_cost,Product\_name, Product\_id, Product\_item\_no (Product1)