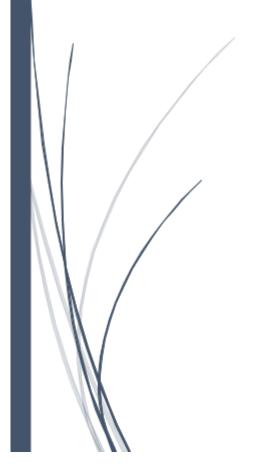
DEPARTMENTAL STORE MANAGEMENT SYSTEM





Project Tittle:

Departmental Store Management System

Course Details	
Course Name	Introduction to Database
Section: I	
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1. Introduction:

It is a database of departmental store. Departmental store is a large retailer who stocks and sells product like groceries, cosmetics, food, drinks etc. It is very large supermarkets or shop selling household goods. People of our country like departmental store because they can buy any kind of product from departmental store. This database system gives management an efficient way to handle their information about products and customers. This database stores any kind of information about product, customers, supplier, admin.

This database

- 1. Stores information of products
- 2. Stores customers details
- 3. Stores supplier information who supplies any kind of product
- 4. Stores admin information who insert any kind of product
- 5. Stores information of all customer who buys which product

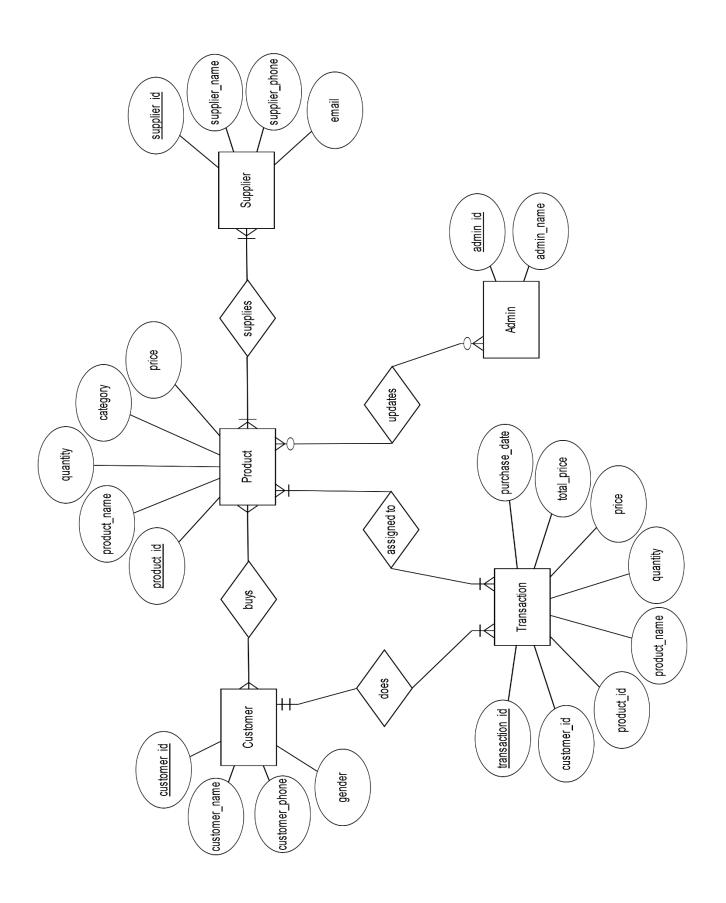
2. Features of database:

- Add and maintain records of available products.
- Add and maintain customer details.
- Add and maintain description of new products.
- All details about admin.
- All details about supplier.
- All details about customer who buys which products.

3. Problem Statements:

- 1) Display customer name, product name, quantity, price, total price for all customer
- 2) Display supplier number, supplier name, product name who supplies product 'apple'
- 3) Display admin number, admin name, product name who insert product 'hilsha'
- 4) Display product number, product name, quantity, price for product 'dove'

4. ER Diagram



5. Normalization:

The normalization is given below from 1NF up to 3NF

1NF:

Product_details:

customer_id	customer_name	customer_phone	gender	product_id
product_name	quantity	category	price	

Supplier:

supplier_id	supplier_name	supplier_phone	email
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Transaction:

customer_id	customer_name	customer_phone	gender
product_id	product_name	quantity	category

Admin:

2NF:

Customer:

customer_id	customer_name	customer_phone	gender
product_id	product_name	quantity	category

Product:

3NF:

Transaction:

transaction_id customer_id product_id product_name total_price purchase_date

Product:

product_id | quantity | category |

Customer:

customer_id customer_name customer_phone gender product_id

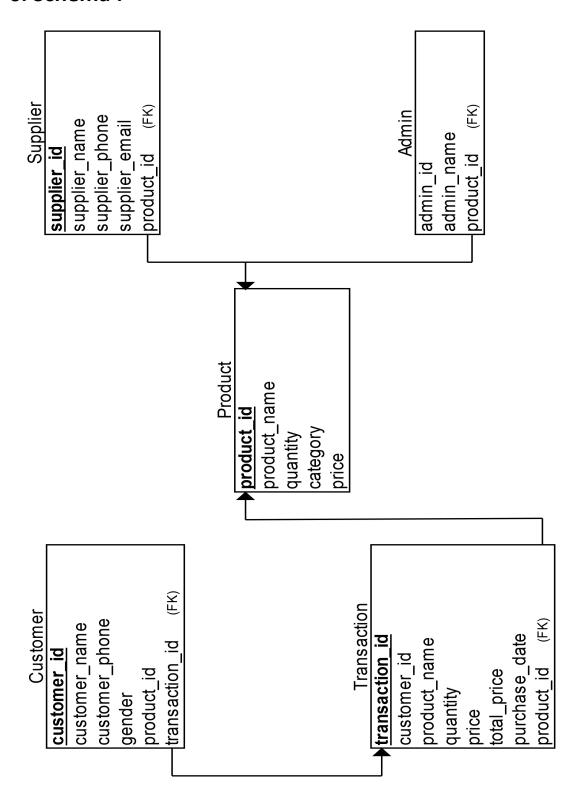
Admin_Product:

admin_id admin_name product_id

Supplier_Product:

supplier_id supplier_name supplier_phone email product_id

6. Schema:



7. Queries:

7.01 DDL:

1. Creating Customer table

Create table customer(customer_id number(10) primary key, customer_name varchar2(20), phone number(20), gender varchar2(10), product_id number(10), transaction_id number(20));

2. Creating Product table

Create table product(product_id number(10) primary key, product_name varchar2(20), quantity varchar2(20), category varchar2(20), price number(20));

3. Creating Supplier table

Create table supplier(supplier_id number(10) primary key, supplier_name varchar2(20), supplier_phone number(20), supplier_email varchar2(20), product_id number(10));

4. Creating Transaction table

Create table transaction(transaction_id number(10) primary key, customer_id number(10), product_id number(10), product_name varchar2(20), quantity varchar2(20), price number(20), total_price number(20), purchase_date date sysdate);

5. Creating Admin table

Create table admin(admin_id number(10) primary key, admin_name varchar2(20), product_id number(10));

7.02 DML

1. Customer table
insert into customer
values(1001,'Arnab',12345,'Male',11,101);
2. Product table
insert into product
values(11,'Apple','10kg','Food',150);
3. Supplier table
insert into supplier
values(101,'Aditya',987456,'aditya@gmail.com',11);
4. Transaction table
insert into transaction
values(101,1001,11,'Apple','5kg',150,750,'17-JAN-17');
5. Admin table
insert into admin
values(10001,'Dipto',11);

7.03 Solutions to problem statements

7.03.01 Display customer name, product name, quantity, price, total price for all customer

select c.customer_name,t.product_name,t.quantity,t.price,t.total_price

from customer c join transaction t

on c.customer_id=t.customer_id;

Results Explain De	scribe Saved SQL	History		
CUSTOMER_NAME	PRODUCT_NAME	QUANTITY	PRICE	TOTAL_PRICE
Arnab	Apple	5kg	150	750
Anik	Hilsha	2kg	1000	2000
Farhan	Body lotion	2	200	4000
Natasha	Dove	2	100	200
Tonni	Coca cola	2	50	100

5 rows returned in 0.06 seconds CSV Export

7.03.02 Display supplier number, supplier name, product name who supplies product 'apple'

select s.supplier_id,s.supplier_name,p.product_name

from supplier s join product p

on s.product_id=p.product_id

and p.product_name='Apple';

Results	Explain	Describe	Saved S	SQL	History
SUPPLI	ER_ID	SUPPLIER_I	NAME	PRO	DUCT_NAME
1		Aditya		App	le
1 rows re	turned in	0.04 secon	ds	CSV	/ Export

7.03.03 Display admin number, admin name, product name who insert product 'hilsha'

select a.admin_id,a.admin_name,p.product_name

from admin a join product p

on a.product_id=p.product_id

and p.product_name='Hilsha'



1 rows returned in 0.02 seconds

CSV Export

7.03.04 Display product number, product name, quantity, price for product 'dove'

select product_id,product_name,quantity,price

from product

where product_id=(select product_id

from product

where product_name='Dove');

Results	Explain	Describe	Saved S	QL	History	
PRODUC	CT_ID	PRODUCT_	NAME	QUA	NTITY	PRICE
14		Dove		10		100
1 rows re	turned in	0.00 secon	nds	CSV	/ Export	