**DBMS Queries**

**Tables:**

CREATE TABLE Employee( employee\_id varchar (20) NOT NULL, employee\_name varchar (20) NOT NULL, employee\_contact int NOT NULL , employee\_dob date NOT NULL, employee\_email varchar(50) NOT NULL, employee\_address varchar(50) NOT NULL, gender VARCHAR(10) NOT NULL check (gender = 'female' or gender='male'), PRIMARY KEY (employee\_id) );

CREATE TABLE OfferDetails( offers\_id varchar(50) NOT NULL, offers\_type varchar(50) NOT NULL, offers\_details varchar(50) NOT NULL, offers\_start\_date date NOT NULL, offers\_end\_date date NOT NULL, PRIMARY KEY (offers\_id) );

CREATE TABLE Customer( customer\_id varchar(10) NOT NULL, customer\_name varchar(50) NOT NULL, customer\_contact int NOT NULL, date\_of\_birth date NOT NULL, email varchar(50) NOT NULL, address varchar(50) NOT NULL, gender VARCHAR(20) NOT NULL check (gender = 'female' or gender='male'), customer\_type\_id varchar(6) NOT NULL, membership\_to date NOT NULL, membership\_to\_from date NOT NULL, PRIMARY KEY (customer\_id), FOREIGN KEY (customer\_type\_id) REFERENCES CustomerType(type\_id) ON DELETE SET NULL ON UPDATE CASCADE );

CREATE TABLE Warehouse( warehouse\_no varchar(20) , warehouse\_name varchar(50) , PRIMARY KEY (warehouse\_no) );

CREATE TABLE Category( category\_id varchar(6) NOT NULL, category\_name varchar(50) NOT NULL, store\_id varchar(2) NOT NULL, warehouse\_no varchar(20) , PRIMARY KEY (category\_id) , FOREIGN KEY (store\_id) REFERENCES Block(block\_id), FOREIGN KEY (warehouse\_no) REFERENCES Warehouse(warehouse\_no) );

CREATE TABLE PaymentMode( payment\_mode\_id varchar(6) NOT NULL, mode\_of\_payment varchar(20) NOT NULL, offer\_id varchar(50) NOT NULL, PRIMARY KEY (payment\_mode\_id) , FOREIGN KEY (offer\_id) REFERENCES OfferDetails(offers\_id) ON DELETE SET NULL ON UPDATE CASCADE );

CREATE TABLE Product( product\_id varchar(20) NOT NULL, product\_type varchar(50) NOT NULL, brand varchar(20) NOT NULL, cost\_price float NOT NULL, weight varchar(20) NOT NULL, selling\_price float NOT NULL, category\_id varchar(6) NOT NULL, offer\_id varchar(50) NOT NULL, block\_count int NOT NULL, warehouse\_count int NOT NULL, PRIMARY KEY (product\_id), FOREIGN KEY (offer\_id) REFERENCES OfferDetails(offers\_id) ON DELETE SET NULL ON UPDATE CASCADE, FOREIGN KEY (category\_id) REFERENCES Category(category\_id) ON DELETE SET NULL ON UPDATE CASCADE );

CREATE TABLE Buys( product\_id varchar(20) NOT NULL, invoice\_id varchar(20) NOT NULL, quantity int NOT NULL, cost float Not NULL, PRIMARY KEY (product\_id,invoice\_id), FOREIGN KEY (product\_id) REFERENCES Product(product\_id) ON DELETE SET NULL ON UPDATE CASCADE, FOREIGN KEY (invoice\_id) REFERENCES InvoiceDetails(inv\_id) ON DELETE SET NULL ON UPDATE CASCADE );

CREATE TABLE Feedback( review\_id varchar(20) NOT NULL, review\_text VARCHAR(50) NOT NULL, rating int NOT NULL, review\_date date NOT NULL, cust\_id varchar(20) NOT NULL, invoice\_id varchar(20) NOT NULL, PRIMARY KEY (review\_id), FOREIGN KEY (cust\_id) REFERENCES Customer(customer\_id) ON DELETE SET NULL ON UPDATE CASCADE, FOREIGN KEY (invoice\_id) REFERENCES InvoiceDetails(inv\_id) ON DELETE SET NULL ON UPDATE CASCADE );

**Insert Queries:**

INSERT into Employee values('EMP1001','Mahesh Jha','72015478','1978-05-01','mahesh.jha@gmail.com','R.K.Puram','male'); INSERT into Employee values('EMP1002','Sunil Kumar','78621365','1979-01-02','sunilkumar@gmail.com','Rohini','male'); INSERT into Employee values('EMP1003','Niranjan Choudary','83473419','1995-02-13','nkc696@gmail.com','Kailash Nagar','male'); INSERT into Employee values('EMP2001','Shashi Kapoor','98751235','1986-05-07','shashi.kap@gmail.com','Pritampura','male'); INSERT into Employee values('EMP2002','Anjana Singh','87465354','1975-05-06','anjana0605@gmail.com','Rohini','female'); INSERT into Employee values('EMP2003','Degangna Suryavanshi','85219932','1990-02-14','surya.deganga@hotmail.com','Hauz Khas','female');

INSERT into OfferDetails values('OFF10','Discount','10 %off','2016-01-01','2017-03-31'); INSERT into OfferDetails values('THREE+ONE','Bonanza','Buy 3 product and get one free','2016-05-01','2017-09-28'); INSERT into OfferDetails values('SUMMER25','Summer offer','25% off','2016-03-05','2016-05-28'); INSERT into OfferDetails values('WINTER20','Winter offer','20% off','2016-11-01','2017-02-28'); INSERT into OfferDetails values('SUMMER5','Summer offer','5% off','2016-03-01','2016-06-28'); INSERT into OfferDetails values('WINTER5','Winter offer','5% off','2016-11-01','2017-02-28');

INSERT into PaymentMode values('PAY001','Cash','CASH10'); INSERT into PaymentMode values('PAY002','Credit card','CREDIT5'); INSERT into PaymentMode values('PAY003','Debit card','DEBIT5'); INSERT into PaymentMode values('PAY004','Paytm','PAYTM8');

INSERT into Warehouse values('WARA001','AWARE'); INSERT into Warehouse values('WARA002','BWAR'); INSERT into Warehouse values('WARA003','CWAR'); INSERT into Warehouse values('WARB001','DWAR'); INSERT into Warehouse values('WARB002','EWAR'); INSERT into Warehouse values('WARC001','FWAR');

insert into Customer values('CTM00001','Mahesh','96548245','2000-11-23','maheshpunk@gmail.com','rohini','male','CT00S','2016-12-10','2017-12-10'); insert into Customer values('CTM00002','Rakesh','96545489','1998-07-13','rakeshrap@gmail.com','cannaught palace','male','CT00G','2016-05-17','2019-05-17'); insert into Customer values('CTM00003','Shanti','86544759','1996-10-28','shanti203@gmail.com','pitampura','female','CT00G','2015-12-05','2018-12-05'); insert into Customer values('CTM00004','Vimla','92512549','1994-10-11','vimlakanti@gmail.com','india gate','female','CT00P','2012-07-10','2017-07-10'); insert into Customer values('CTM00005','Ahmad','84824589','2000-09-11','ahmadkhan11@gmail.com','pragati maidan','male','CT00S','2016-10-15','2017-10-15'); insert into Customer values('CTM00006','Vikash','96618554','1998-02-13','[vikashhero@gmail.com](mailto:vikashhero@gmail.com)','rohini','male','CT00S','2016-11-11','2017-11-11');

NSERT into Category values('GRO001','Fruits & Vegetables','A1','WARA001'); INSERT into Category values('GRO002','Spices','A1','WARB001'); INSERT into Category values('GRO003','Dry Fruits','A1','WARC003'); INSERT into Category values('GRO004','Rice & Pulses','A1','WARC002'); INSERT into Category values('GRO005','Oils','A1','WARB001'); INSERT into Category values('DN001','Soaps & Detergents','A2','WARC001');

INSERT into InvoiceDetails values('AAI001','CTM00001','6000.223','2017-05-01','PAY001','EMP2001'); INSERT into InvoiceDetails values('AAI002','CTM00007','495000.11','2017-04-29','PAY002','EMP2003'); INSERT into InvoiceDetails values('AAJ003','CTM00003','19865.22','2017-04-12','PAY003','EMP2004'); INSERT into InvoiceDetails values('AAJ001','CTM00005','800.25','2015-02-05','PAY004','EMP2002'); INSERT into InvoiceDetails values('AAJ002','CTM00007','5666.22','2014-07-07','PAY001','EMP2005'); INSERT into InvoiceDetails values('AAK001','CTM00015','78289.42','2014-02-12','PAY002','EMP2006');

INSERT into Product values('PI10001','Apple','CASCADIAN FARM','270','1kg','300','GRO001','OFF10','500','300'); INSERT into Product values('PI10002','Banana','HARVEST FARM','36','1kg','40','GRO001','OFF10','200','100'); INSERT into Product values('PI10003','Orange','365 ORGANIC','180','1kg','200','GRO001','OFF10','300','200'); INSERT into Product values('PI10004','Brinjal','MARKET SIDE','36','1kg','40','GRO001','OFF10','100','50'); INSERT into Product values('PI10005','Potato','MARKET SIDE','18','1kg','20','GRO001','OFF10','100','50'); INSERT into Product values('PI10011','turmeric','EVEREST','45','0.05kg','50','GRO002','OFF10','100','200'); INSERT into Product values('PI10012','chilli powder','EVEREST','36','0.05kg','40','GRO002','OFF10','100','200'); INSERT into Product values('PI10013','Salt','TATA','18','1 kg','20','GRO002','OFF10','200','100'); INSERT into Product values('PI10014','Chicken Masala','EVEREST','36','0.1kg','40','GRO002','OFF10','100','150');

INSERT into Buys values('PI10531','AAA001','1','1550'); INSERT into Buys values('PI10511','AAA001','1','800'); INSERT into Buys values('PI10602','AAA001','1','100'); INSERT into Buys values('PI10441','AAA002','1','2310'); INSERT into Buys values('PI10522','AAA002','1','2350'); INSERT into Buys values('PI10532','AAA002','1','1350'); INSERT into Buys values('PI10432','AAA002','1','27200');

**PL-SQL CODE :**

**Inserting values in employee table:**

DECLARE  
 r\_emp employees%ROWTYPE;  
 CURSOR emp\_cur is  
 SELECT \*  
 FROM employees;  
BEGIN  
 FOR r\_emp IN emp\_cur  
 LOOP  
 DBMS\_OUTPUT.PUT\_LINE( 'id: ' || r\_emp.employee\_id ||', name: ' || r\_emp.employee\_name || ', address: ' || r\_emp.address ', email: ' || r\_emp.email);  
 END LOOP;  
END;