```sql
-- SCHEMA: grocery

-- DROP SCHEMA grocery ;

DROP SCHEMA grocery CASCADE ;
CREATE SCHEMA grocery;

CREATE TABLE grocery.store(
        storeID char(10)primary key,
        plot_number varchar(5),
        street varchar(30),
        located varchar(20),
        city varchar(10),
        PIN decimal(6,0)
);
CREATE TABLE grocery.category(
        categoryID char(5)primary key,
        category_name varchar(50)
);
SET search_path TO grocery;
CREATE TABLE grocery.products(
        productID char(10)primary key,
        product_name varchar(20),
        Brand varchar(15),
        discount_details real CHECK(discount_details>=0 AND discount_details<100),
        cost_per_kg decimal(6,2),
        cost_per_packet decimal(5,2),
        MRP decimal(5,2),
        categoryID char(10) REFERENCES category(categoryID) ON DELETE RESTRICT ON UPDATE
RESTRICT NOT NULL
);
```

```sql
CREATE TABLE grocery.contains(

        storeID char(10) REFERENCES store(storeID) ON DELETE cascade ON UPDATE RESTRICT,

        productID char(10) REFERENCES products(productID) ON DELETE CASCADE ON UPDATE
CASCADE,

        expiry_date date,

        stock real,

        PRIMARY KEY(storeID,productID)

);
CREATE TABLE Grocery.Vendor(

        vendorID char(10) PRIMARY KEY,

        vendor_name varchar(20),

        plot_no varchar(5),

    street_no varchar(15),

        located varchar(15),

        city varchar(15),

        PIN decimal(6,0)

);
CREATE TABLE Grocery.Vendor_Contact_Number(

        vendorID char(10) REFERENCES Vendor(vendorID) ON DELETE RESTRICT ON UPDATE
RESTRICT,

        contact_no decimal(10,0) NOT NULL,

        PRIMARY KEY(vendorID)

);


CREATE TABLE employee(

        employeeID char(13) PRIMARY KEY,

        full_name varchar(30) NOT NULL,

        gender char(1) CHECK (gender IN('M','F','O')),

        DOB date,

        designation varchar(20),

        shift_start_time time,

        date_of_hiring date,
```

```sql
        aadhar_number numeric(12) NOT NULL UNIQUE,

    salary numeric(6,0),

        salary_status varchar(10),

        supervisorID char(13) REFERENCES employee(employeeID) ON DELETE SET NULL ON UPDATE
CASCADE,

        is_manager BOOLEAN,

        storeID char(10) REFERENCES store(storeID) ON DELETE cascade ON UPDATE RESTRICT NOT
NULL,

        categoryID char(10) REFERENCES category(categoryID) ON DELETE RESTRICT ON UPDATE
RESTRICT
);
CREATE TABLE grocery.employee_contact_no(

        employeeID char(13) references employee(employeeID) ON DELETE RESTRICT ON UPDATE
RESTRICT,

        contact_no CHAR(10) NOT NULL
);
CREATE TABLE grocery.attendance(

        work_date DATE PRIMARY KEY
);
CREATE TABLE grocery.fills(

        employeeID char(13) references employee(employeeID) ON DELETE RESTRICT ON UPDATE
RESTRICT,

        work_date DATE references attendance(work_date) ON DELETE RESTRICT ON UPDATE
RESTRICT,

        status char(1) CHECK(status IN('P', 'A', 'L'))
);
CREATE TABLE Grocery.delivery_details(

        product_ID char(10) NOT NULL REFERENCES products(productID) ON DELETE CASCADE ON
UPDATE CASCADE,

    cost_per_kg decimal(4,0),

    quantity_in_kgs decimal (4,0),

        cost_per_packet decimal (4,0),

        quantity_in_packets decimal(4,0),
```

```sql
        cost_per_carton decimal(4,0),

        number_of_cartons decimal(4,0),

        arrival_date Date,

        delivered_date Date NOT NULL,

        payment_status BOOLEAN,

        vendor_ID char(10),

        store_ID char(10),

        UNIQUE(product_ID,vendor_ID,store_ID)

);
CREATE TABLE customer(

        customerID char(14) primary key,

        customer_name varchar(15),

        plot_number varchar(10),

        location_ varchar(20),

        city varchar(20),

        pin DECIMAL(6,0),

        contactNo VARCHAR(15),

        special_discount real CHECK(special_discount>=0 AND special_discount<100)

);
CREATE TABLE transaction(

        transaction_id varchar(10) PRIMARY KEY,

        purchase_date date,

        mode_of_payment char(4) CHECK(mode_of_payment in ('Cash','Card')),

        customerID char(14) REFERENCES customer(customerID) ON DELETE CASCADE ON UPDATE
CASCADE NOT NULL,

        storeID char(10) REFERENCES store(storeID) ON DELETE CASCADE ON UPDATE RESTRICT

);
CREATE TABLE madeON(

        transaction_id varchar(10) REFERENCES transaction(transaction_id) ON UPDATE CASCADE
ON DELETE RESTRICT,

        productID char(10) REFERENCES products(productID) ON UPDATE NO ACTION ON DELETE
RESTRICT,
```

```sql
        PRIMARY KEY(transaction_id, productID),

        quantity decimal(3,0)

);

INSERT INTO grocery.store(

        storeid, plot_number, street, located, city, pin)

        VALUES ('600040AN01', 'AB-95', 'Jawaharlal Nehru Road', 'Anna Nagar', 'Chennai', 600040),

         ('600040AN02', 'AA-90', 'Anna Street', 'Anna Nagar', 'Chennai', 600040),

         ('380015VS01', 'G-18', 'Ahmedabad One Mall', 'Vastrapur', 'Ahmedabad', 380015),

         ('380009NV01', 'H-16', 'Xaviers Corner', 'Navrangpura', 'Ahmedabad', 380009),

         ('380009NV02', 'A-22', 'Gulbai Tekra Approach', 'Navrangpura', 'Ahmedabad', 380009);


insert into grocery.vendor(vendorid,vendor_name,plot_no,street_no,located,city,pin)

        values('CN20200001','Antony','AB65','vegetable mandi','koyembedu','chennai',600041),

            ('CN20200002','nasser','A95','vegetable mandi','koyembedu','chennai',600039),

         ('CN20190003','swaminathan','B65','2nd street','Vyasarpadi','chennai',600023),

         ('CN20180021','bhaskar','R35','Irwin road','mannadi','chennai',600048),

            ('CN20180024','richard','M45','20th street','mannadi','chennai',600048),

         ('CN20160044','hariprakash','M-35','raj road','rayapuram','chennai', 600021),

         ('MU20170001','yashpal','B35','walter street','bhandra','mumbai',400051),

         ('AB20130020','M Patel','A-30','kings road','Navrangapur','Ahmedabad',380009),

         ('AB20160040','vinay desai','B-60','south road','Shilaj','Ahmedabad',380009),

         ('AB20160042','harisingh','B-35','south road','Shilaj','Ahmedabad',380009),

         ('AB20190034', 'lal', 'A-59','vegetable mandi', 'Navrangpura', 'Ahmedabad', 380009),

         ('AB20150034', 'mansingh', 'F-21','Xavier road', 'Ambavadi', 'Ahmedabad', 380006);

insert into grocery.category(categoryID,category_name)

        values('CAN01','Fruits and vegetables'),

        ('CAN02','diary and eggs'),

        ('CAN03','cosmetics and Household essentials'),

        ('CAN04','stationary products and office essentials'),

        ('CAN05','cooking essentials'),

        ('CAN06','confectionaries and cool drinks');
```

INSERT INTO grocery.products(productID, product_name, Brand, discount_details, cost_per_kg, cost_per_packet, MRP, categoryID)

VALUES('CAN040101', 'Pen', 'Parker', 0, NULL, NULL, 200, 'CAN04'),

('CAN040102', 'Pen', 'Sheaffer', 15, NULL, NULL, 500, 'CAN04'),

('CAN040201', 'Geometry Box', 'Classmate', 10, NULL, NULL, 250, 'CAN04'),

('CAN040202', 'Geometry Box', 'Faber-Castell', 0, NULL, NULL, 150, 'CAN04'),

('CAN0403', 'Files', NULL, 0, NULL, NULL, 100, 'CAN04'),

('CAN040401', 'A4 size paper', 'Copy Power', 0, NULL, NULL, 200, 'CAN04'),

('CAN060101', 'Minute Maid', 'Coca-Cola', 0, NULL, NULL, 20, 'CAN06'),

('CAN060201', 'Mountain Dew', 'Pepsi', 0, NULL, NULL, 25, 'CAN06'),

('CAN060301', 'Dairy Milk Silk', 'Cadbury', 0, NULL, NULL, 160, 'CAN06'),

('CAN060401', 'Chocolate Pastry', 'Monginis', 0, NULL, NULL, 100, 'CAN06'),

('CAN0605', 'Donut', NULL, 0, NULL, NULL, 80, 'CAN06'),

('CAN0606', 'Fudge', NULL, 0, NULL, NULL, 40, 'CAN06'),

('CAN0301', 'Vacuum Cleaner', NULL, 15, NULL, NULL, 650, 'CAN03'),

('CAN030201', 'Room Freshener', 'Godrej aer', 0, NULL, NULL, 200, 'CAN03'),

('CAN030301', 'Sanitizer', 'Dettol', 0, NULL, NULL, 100, 'CAN03'),

('CAN030401', 'Makeup Box', 'MAC', 20, NULL, NULL, 900, 'CAN03'),

('CAN030501', 'Skin Care Combo', 'Olay', 15, NULL, NULL, 700, 'CAN03'),

('CAN0101', 'apple', NULL, 10, 200.00, NULL, NULL, 'CAN01'),

('CAN0102', 'banana', NULL, 15, 40.00, NULL, NULL, 'CAN01'),

('CAN0103', 'pear', NULL, 5, 150.00, NULL, NULL, 'CAN01'),

('CAN0104', 'potato', NULL, 20, 40.00, NULL, NULL, 'CAN01'),

('CAN0105', 'onion', NULL, 10, 80.00, NULL, NULL, 'CAN01'),

('CAN0106', 'tomato', NULL, 30, 80.00, NULL, NULL, 'CAN01'),

('CAN0107', 'okra', NULL, 40, 80.00, NULL, NULL, 'CAN01'),

('CAN020101','Milk(500mL)',NULL,5,NULL,25,NULL,'CAN02'),

('CAN020102','Milk(1L)',NULL,8,NULL,50,NULL,'CAN02'),

('CAN020201','Curd',NULL,0,NULL,20,NULL,'CAN02'),

('CAN020301','Paneer(500gm)',NULL,0,NULL,70,NULL,'CAN02'),

```sql
('CAN020302','Paneer(1kg)',NULL,5,NULL,140,NULL,'CAN02'),

('CAN020401','Eggs(Half Dozen)',NULL,6,NULL,65,NULL,'CAN02'),

('CAN020402','Eggs(1 Dozen)',NULL,8,NULL,130,NULL,'CAN02'),

('CAN050101','Ketchup','Heinz',5,NULL,NULL,200,'CAN05'),

('CAN050102','Ketchup','Maggi',2,NULL,NULL,150,'CAN05'),

('CAN0502','Jam','Kissan',4,NULL,NULL,80,'CAN05'),

('CAN0503','Salt',NULL,3,NULL,NULL,16,'CAN05'),

('CAN0504','Sugar',NULL,3,NULL,NULL,40,'CAN05'),

('CAN0505','Oil',NULL,0,NULL,NULL,150,'CAN05'),

('CAN0506','Garam Masala','Everest',2,NULL,NULL,70,'CAN05'),

('CAN0508','Turmeric',NULL,0,NULL,NULL,25,'CAN05'),

('CAN0509','Red Chilli Powder',NULL,2,NULL,NULL,30,'CAN05'),

('CAN051001','Atta','Aashirvad',5,NULL,NULL,90,'CAN05'),

('CAN051002','Atta','OrganicTatva',3,NULL,NULL,88,'CAN05'),

('CAN0511','Maida','OrganicTatva',6,NULL,NULL,55,'CAN05');

insert into attendance values('2020-08-01'), ('2020-08-02'), ('2020-08-03'),( '2020-08-04'),

        ('2020-08-05'), ('2020-08-06'), ('2020-08-07'), ('2020-08-08'),

        ('2020-08-09'), ('2020-08-10'), ('2020-08-11'), ('2020-08-12'),

        ('2020-08-13'), ('2020-08-14'),( '2020-08-15'), ('2020-08-16'),

        ('2020-08-17'), ('2020-08-18'), ('2020-08-19'), ('2020-08-20'),

        ('2020-08-21'), ('2020-08-22'), ('2020-08-23'), ('2020-08-24'),

        ('2020-08-25'), ('2020-08-26'), ('2020-08-27'), ('2020-08-28'),

        ('2020-08-29'), ('2020-08-30'), ('2020-08-31');

INSERT INTO grocery.fills(employeeid,work_date)

SELECT * FROM (SELECT employeeid FROM grocery.employee) as a,

(SELECT work_date FROM grocery.attendance) as b;

UPDATE grocery.fills

        SET status='P';

UPDATE grocery.fills

        SET status='A'

        WHERE employeeid='600040AN0102' and work_date='2020-08-01';
```

```sql
UPDATE grocery.fills
    SET status='A'
    WHERE employeeid='600040AN0220' and work_date='2020-08-01';
UPDATE grocery.fills
    SET status='A'
    WHERE employeeid='600040AN0102' and work_date='2020-08-04';
INSERT INTO grocery.Vendor_Contact_Number(vendorid, contact_no)
VALUES ('CN20200001', 8160522549),
('CN20200002', 7405125915),
('CN20190003', 9898818611),
('CN20180021', 9737165687),
('CN20180024', 9925088370),
('CN20160044', 9664831769),
('MU20170001', 8824736189),
('AB20130020', 8426971364),
('AB20160040', 9631578420),
('AB20160042', 9853700173),
('AB20190034', 7509574985),
('AB20150034', 9647851320);


INSERT INTO grocery.employee_contact_no(employeeID, contact_no)
VALUES ('600040AN0101', 9924821673),
('600040AN0102', 8754236910),
('600040AN0103', 7694436150),
('600040AN0104', 9668557440),
('600040AN0105', 8585631407),
('600040AN0106', 9183504735),
('600040AN0107', 7406581067),
('600040AN0108', 9403571590),
('600040AN0109', 8877251087),
('600040AN0110', 9637859631),
```

('600040AN0111', 8765019780),

('600040AN0112', 7983000483),

('600040AN0113', 9638640187),

('600040AN0114', 8564006995),

('600040AN0115', 7893510895),

('600040AN0116', 6355878407),

('600040AN0117', 9426011939),

('600040AN0118', 9924238195),

('600040AN0119', 9106499816),

('600040AN0120', 8097483477),

('600040AN0121', 9833437298),

('600040AN0122', 9824063084),

('600040AN0123', 9879509761),

('600040AN0124', 9825939901),

('600040AN0125', 9427443983),

('600040AN0126', 9426046620),

('600040AN0201', 9033042590),

('600040AN0202', 8879251525),

('600040AN0203', 8156091895),

('600040AN0204', 9638629081),

('600040AN0205', 9824399781),

('600040AN0206', 9925122049),

('600040AN0207', 9737667318),

('600040AN0208', 9769163020),

('600040AN0209', 7925500681),

('600040AN0210', 9998065637),

('600040AN0211', 9904567978),

('600040AN0212', 9974249333),

('600040AN0213', 9833312222),

('600040AN0214', 9586680595),

('600040AN0215', 8320026641),

('600040AN0216', 9427363962),

('600040AN0217', 6352506629),

('600040AN0218', 9265026913),

('600040AN0219', 8460066560),

('600040AN0220', 8153073414),

('600040AN0221', 9998932368),

('600040AN0222', 835017647),

('600040AN0223', 7096043866),

('380015VS0105', 9265003139),

('380015VS0107', 9687051504),

('380015VS0108', 9376127546),

('380015VS0109', 8460960006),

('380015VS0110', 9909705764),

('380015VS0111', 9737609710),

('380015VS0112', 9712009809),

('380015VS0113', 6355099544),

('380015VS0114', 9825711668),

('380015VS0115', 8460422379),

('380015VS0116', 9714452139),

('380015VS0117', 9033032590),

('380015VS0118', 8401981908),

('380015VS0119', 9106701038),

('380015VS0120', 8200786986),

('380015VS0121', 8879395070),

('380015VS0122', 9408116289),

('380015VS0123', 9173468946),

('380015VS0124', 9662297308),

('380015VS0125', 9619666210),

('380015VS0126', 9004060701),

('380015VS0127', 7874550189),

('380015VS0128', 9106967567),

```
('380015VS0129', 7285047463),

('380015VS0130', 9974956708),

('380009NV0107', 7069697155),

('380009NV0108', 8460147778),

('380009NV0109', 8403986275),

('380009NV0110', 9825010050),

('380009NV0111', 7069734490),

('380009NV0112', 9265529779),

('380009NV0113', 9558816629),

('380009NV0114', 9374605967),

('380009NV0115', 9924237329),

('380009NV0116', 9428989139),

('380009NV0117', 9327099214),

('380009NV0118', 9967334119),

('380009NV0119', 9727086840),

('380009NV0120', 9825952085),

('380009NV0121', 9558182233),

('380009NV0122', 9724623177),

('380009NV0123', 9974860006),

('380009NV0124', 9409122549),

('380009NV0125', 7874833665),

('380009NV0126', 6380409081),

('380009NV0127', 7017764335),

('380009NV0128', 7000238585),

('380009NV0129', 8867400741);
select * from fills where status='A';
select * from contains;
select * from delivery_details;
select * from employee_contact_no;
select * from customer;
select * from employee;
```

```sql
select * from transaction;

select * from madeon;
```