```sql
CREATE TABLE brands (
    bid INT(5),
    bname VARCHAR(20),
    PRIMARY KEY (bid)
);


CREATE TABLE inv_user (
    user_id VARCHAR(20),
    name VARCHAR(20),
    password VARCHAR(20),
    last_login TIMESTAMP,
    user_type VARCHAR(10),
    PRIMARY KEY (user_id)
);


CREATE TABLE categories (
    cid INT(5),
    category_name VARCHAR(20),
    PRIMARY KEY (cid)
);


CREATE TABLE product (
    pid INT(5) PRIMARY KEY,
    cid INT(5),
    bid INT(5),
    sid INT(5),
    pname VARCHAR(20),
    p_stock INT(5),
    price DECIMAL(10, 2),
    added_date DATE,
    FOREIGN KEY (cid) REFERENCES categories(cid),
```

```sql
    FOREIGN KEY (bid) REFERENCES brands(bid),

    FOREIGN KEY (sid) REFERENCES stores(sid)

);


CREATE TABLE stores (

    sid INT(5) PRIMARY KEY,

    sname VARCHAR(20),

    address VARCHAR(20),

    mobno BIGINT(10)

);


CREATE TABLE provides (

    bid INT(5),

    sid INT(5),

    discount INT(5),

    FOREIGN KEY (bid) REFERENCES brands(bid),

    FOREIGN KEY (sid) REFERENCES stores(sid)

);


CREATE TABLE customer_cart (

    cust_id INT(5) PRIMARY KEY,

    name VARCHAR(20),

    mobno BIGINT(10)

);


CREATE TABLE select_product (

    cust_id INT(5),

    pid INT(5),

    quantity INT(4),

    FOREIGN KEY (cust_id) REFERENCES customer_cart(cust_id),

    FOREIGN KEY (pid) REFERENCES product(pid)
```

```
);

CREATE TABLE transaction (
    id INT(5) PRIMARY KEY,
    total_amount DECIMAL(10, 2),
    paid DECIMAL(10, 2),
    due DECIMAL(10, 2),
    gst DECIMAL(5, 2),
    discount DECIMAL(10, 2),
    payment_method VARCHAR(10),
    cart_id INT(5),
    FOREIGN KEY (cart_id) REFERENCES customer_cart(cust_id)
);

CREATE TABLE invoice (
    item_no INT(5),
    product_name VARCHAR(20),
    quantity INT(5),
    net_price DECIMAL(10, 2),
    transaction_id INT(5),
    FOREIGN KEY (transaction_id) REFERENCES transaction(id)
);

INSERT INTO brands (bid, bname) VALUES (1, 'Apple'), (2, 'Samsung'), (3, 'Nike'), (4, 'Fortune');

INSERT INTO inv_user VALUES ('vidit@gmail.com', 'vidit', '1234', '2018-10-31 12:40:00', 'admin');

INSERT INTO inv_user VALUES ('harsh@gmail.com', 'Harsh Khanelwal', '1111', '2018-10-30 10:20:00', 'Manager');

INSERT INTO inv_user VALUES ('prashant@gmail.com', 'Prashant', '0011', '2018-10-29 10:20:00', 'Accountant');

INSERT INTO categories (cid, category_name) VALUES (1, 'Electronics'), (2, 'Clothing'), (3, 'Grocery');
```

```sql
INSERT INTO stores VALUES (1, 'Ram kumar', 'Katpadi vellore', 9999999999);

INSERT INTO stores VALUES (2, 'Rakesh kumar', 'chennai', 8888555541);

INSERT INTO stores VALUES (3, 'Suraj', 'Haryana', 7777555541);


INSERT INTO product VALUES (1, 1, 1, 1, 'IPHONE', 4, 45000, '2018-10-31');

INSERT INTO product VALUES (2, 1, 1, 1, 'Airpods', 3, 19000, '2018-10-27');

INSERT INTO product VALUES (3, 1, 1, 1, 'Smart Watch', 3, 19000, '2018-10-27');

INSERT INTO product VALUES (4, 2, 3, 2, 'Air Max', 6, 7000, '2018-10-27');

INSERT INTO product VALUES (5, 3, 4, 3, 'REFINED OIL', 6, 750, '2018-10-25');


INSERT INTO provides VALUES (1, 1, 12);

INSERT INTO provides VALUES (2, 2, 7);

INSERT INTO provides VALUES (3, 3, 15);

INSERT INTO provides VALUES (1, 2, 7);

INSERT INTO provides VALUES (4, 2, 19);

INSERT INTO provides VALUES (4, 3, 20);


INSERT INTO customer_cart VALUES (1, 'Ram', 9876543210);

INSERT INTO customer_cart VALUES (2, 'Shyam', 7777777777);

INSERT INTO customer_cart VALUES (3, 'Mohan', 7777777775);


INSERT INTO select_product VALUES (1, 2, 2);

INSERT INTO select_product VALUES (2, 3, 1);

INSERT INTO select_product VALUES (3, 2, 1);


INSERT INTO transaction VALUES (1, 57000, 20000, 5000, 350, 350, 'card', 1);

INSERT INTO transaction VALUES (2, 57000, 57000, 0, 570, 570, 'cash', 2);

INSERT INTO transaction VALUES (3, 19000, 17000, 2000, 190, 190, 'cash', 3);


DELIMITER //
```

```sql
CREATE PROCEDURE get_due(IN c_id INT)
BEGIN
    DECLARE due1 DECIMAL(10, 2);
    DECLARE cart_id1 INT;


    SELECT cart_id INTO cart_id1 FROM transaction WHERE cart_id = c_id;
    SELECT due INTO due1 FROM transaction WHERE cart_id = cart_id1;
    SELECT due1;
END //
DELIMITER ;


DELIMITER //
CREATE PROCEDURE list_products()
BEGIN
    DECLARE p_id INT;
    DECLARE p_name VARCHAR(20);
    DECLARE p_stock INT;


    DECLARE done INT DEFAULT FALSE;
    DECLARE p_product CURSOR FOR SELECT pid, pname, p_stock FROM product;
    DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;


    OPEN p_product;


    product_loop: LOOP
        FETCH p_product INTO p_id, p_name, p_stock;
        IF done THEN
            LEAVE product_loop;
        END IF;
        SELECT CONCAT(p_id, ' ', p_name, ' ', p_stock);
    END LOOP;
```

```
    CLOSE p_product;

END //

DELIMITER ;


DELIMITER //

CREATE PROCEDURE check_stock(IN p_id INT)

BEGIN

    DECLARE a INT;


    SELECT p_stock INTO a FROM product WHERE pid = p_id;


    IF a < 2 THEN

        SELECT 'Stock is Less';

    ELSE

        SELECT 'Enough Stock';

    END IF;

END //

DELIMITER ;
```