

1BM19CS219 MAHANTESH GATTINA

create database `order processing database`;

```
CREATE TABLE CUSTOMER(  
    CUST INT NOT NULL,  
    CNAME VARCHAR(20) NOT NULL,  
    CITY VARCHAR(20) NOT NULL,  
    PRIMARY KEY(CUST)  
);
```

```
CREATE TABLE ORDERS(  
    ORDER_ID INT NOT NULL,  
    ODATE DATE NOT NULL,  
    CUST INT NOT NULL,  
    ORD_AMT INT NOT NULL,  
    PRIMARY KEY(ORDER_ID),  
    FOREIGN KEY(CUST) REFERENCES CUSTOMER(CUST) ON DELETE CASCADE ON  
UPDATE CASCADE);
```

```
CREATE TABLE ITEM(  
    ITEM_ID INT NOT NULL,  
    UNIT_PRICE INT NOT NULL,  
    PRIMARY KEY(ITEM));
```

```
ALTER TABLE ORDERS ENGINE=InnoDB;  
ALTER TABLE ITEM ENGINE=InnoDB;
```

```
CREATE TABLE ORDER_ITEM(  
    ORDER_ID INT NOT NULL,  
    ITEM_ID INT,  
    QTY INT NOT NULL,  
    FOREIGN KEY(ORDER_ID) REFERENCES ORDERS(ORDER_ID) ON DELETE  
CASCADE ON UPDATE CASCADE,  
    FOREIGN KEY(ITEM_ID) REFERENCES ITEM(ITEM) ON DELETE SET null ON  
UPDATE CASCADE);
```

```
CREATE TABLE WAREHOUSE(  
    WAREHOUSE INT NOT NULL,  
    CITY VARCHAR(20) NOT NULL,  
    PRIMARY KEY(WAREHOUSE));
```

```
CREATE TABLE SHIPMENT(  
    ORDER_ID INT NOT NULL,  
    WAREHOUSE INT NOT NULL,  
    SHIP_DATE DATE NOT NULL,  
    FOREIGN KEY(ORDER_ID) REFERENCES ORDERS(ORDER_ID) ON DELETE  
CASCADE ON UPDATE CASCADE,  
    FOREIGN KEY(WAREHOUSE) REFERENCES WAREHOUSE(WAREHOUSE) ON  
DELETE CASCADE ON UPDATE CASCADE);
```

```
INSERT INTO CUSTOMER  
VALUES  
(1,'ABC','BLORE'),  
(2,'DEF','KOLAR'),  
(3,'GHI','BLORE'),
```

```
(4,'JKL','CHITTOR'),  
(5,'MNO','BALLARI');
```

```
INSERT INTO ORDERS  
VALUES  
(1,'06-01-01',2,5000),  
(2,'06-04-26',3,2500),  
(3,'06-04-27',3,1000),  
(4,'06-04-30',5,1000),  
(5,'06-05-25',1,5000);
```

```
INSERT INTO ITEM  
VALUES  
(1,2500),  
(2,5000),  
(3,1000),  
(4,500),  
(5,200);
```

```
INSERT INTO ORDER_ITEM  
VALUES  
(1,2,1),  
(1,4,1),  
(2,1,1),  
(3,5,5),  
(4,2,2);
```

```
INSERT INTO WAREHOUSE  
VALUES  
(1,'BLORE'),  
(2,'KOLAR'),  
(3,'CHITTOR'),  
(4,'KOLAR'),  
(5,'BALLARI');
```

```
INSERT INTO SHIPMENT  
VALUES  
(1,1,'06-04-30'),  
(2,2,'06-04-29'),  
(3,2,'06-04-24'),  
(4,5,'06-04-30'),  
(5,3,'06-06-01');
```

```
SELECT C.CNAME AS CUSTNAME,COUNT(O.ORDER_ID) AS  
OFORDERS,AVG(O.ORD_AMT) AS AVG_ORDER_AMT FROM CUSTOMER C, ORDERS O  
WHERE C.CUST = O.CUST GROUP BY C.CUST
```

```
CUSTNAME  OFORDERS  AVG_ORDER_AMT  
ABC1      5000.0000  
DEF1      5000.0000  
GHI 2     1750.0000  
MNO       1    1000.0000
```

```
SELECT DISTINCT ORDER_ID FROM SHIPMENT WHERE WAREHOUSE IN (SELECT
WAREHOUSE FROM WAREHOUSE WHERE CITY = 'BALLARI')
```

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```
INSERT INTO ITEM
VALUES
(10, 500),
(11,300);
```

```
INSERT INTO ORDER_ITEM
VALUES
(2,10,1),
(3,11,2);
```

```
SELECT * FROM ITEM
```

```
DELETE FROM ITEM WHERE ITEM_ID = 11
```

```
SELECT * FROM ITEM
```

ITEM_ID	UNIT_PRICE	ITEM_ID	UNIT_PRICE
1	2500		
2	5000		
3	1000		
4	500		
5	200		
10	500		
11	300		

1	2500
2	5000
3	1000
4	500
5	200
10	500

```
SELECT * FROM ORDER_ITEM
```

ORDER_ID	ITEM_ID	QTY
1	2	1
1	4	1
2	1	1
3	5	5
4	2	2
2	10	1
3		
	NULL	
2		