Q1.

```sql
CREATE TABLE ITEM(ITEM_ID INT PRIMARY KEY,
        ITEM_NAME VARCHAR(20)
)
INSERT INTO ITEM VALUES (101,'Bar-One'), (102,'KitKat'), (103,'MilkyBar'),
(104,'Munch')
```

	ITEM_ID	ITEM_NAME
1	101	Bar-One
2	102	KitKat
3	103	MilkyBar
4	104	Munch

```sql
CREATE TABLE SHOP(SHOP_ID INT PRIMARY KEY,
        SHOP_NAME VARCHAR(25)
)
INSERT INTO SHOP VALUES (1,'Amal Stores'), (2,'Jyothi Stores'), (3,'Indira Stores')
CREATE TABLE UNITS(UNIT_ID INT PRIMARY KEY,
UNIT VARCHAR(15)
)
```

	SHOP_ID	SHOP_NAME
1	1	Amal Stores
2	2	Jyothi Stores
3	3	Indira Stores

```sql
CREATE TABLE UNITS(UNIT_ID INT PRIMARY KEY,
UNIT VARCHAR(15)
)

INSERT INTO UNITS VALUES (1,'Piece'), (2,'Box Pack')
```

	UNIT_ID	UNIT
1	1	Piece
2	2	Box Pack

```sql
CREATE TABLE SALES (SaleID INT PRIMARY KEY IDENTITY,
    ShopID INT,
    ItemID INT,
    Quantity INT,
        UnitID INT,
    UnitPrice DECIMAL(10, 2),
        SaleDate DATE,
        FOREIGN KEY (UnitID) REFERENCES UNITS (UNIT_ID),
        FOREIGN KEY (ShopID) REFERENCES SHOP (SHOP_ID),
    FOREIGN KEY (ItemID) REFERENCES ITEM (ITEM_ID)
);
INSERT INTO SALES(ShopID, ItemID, Quantity,UnitID, UnitPrice, SaleDate) VALUES
(1,101,100,1,10,'05-Oct-18 '),
(1,102,200,1,15,'05-Oct-18 '),
(1,103,50,1,5,'05-Oct-18 '),
(1,104,150,1,10,'05-Oct-18 '),
(2,101,10,2,280,'10-Oct-18 '),
(2,102,30,2,420,'10-Oct-18 '),
(2,103,40,2,140,'10-Oct-18 '),
(2,104,20,2,280,'10-Oct-18 '),
(3,101,50,2,280,'15-Sep-18 '),
(3,102,70,2,420,'15-Sep-18 '),
(3,103,30,2,140,'10-Oct-18 '),
```

```
(1,101,150,1,10,'15-Sep-18 '),
(1,102,250,1,15,'15-Sep-18 '),
(1,103,200,1,10,'10-Oct-18 ')
```

	SaleID	ShopID	ItemID	Quantity	UnitID	UnitPrice	SaleDate
1	1	1	101	100	1	10.00	2018-10-05
2	2	1	102	200	1	15.00	2018-10-05
3	3	1	103	50	1	5.00	2018-10-05
4	4	1	104	150	1	10.00	2018-10-05
5	5	2	101	10	2	280.00	2018-10-10
6	6	2	102	30	2	420.00	2018-10-10
7	7	2	103	40	2	140.00	2018-10-10
8	8	2	104	20	2	280.00	2018-10-10
9	9	3	101	50	2	280.00	2018-09-15
10	10	3	102	70	2	420.00	2018-09-15
11	11	3	103	30	2	140.00	2018-10-10
12	12	1	101	150	1	10.00	2018-09-15
13	13	1	102	250	1	15.00	2018-09-15
14	14	1	104	200	1	10.00	2018-10-10

Q2.

```sql
SELECT TOP 1 I.ITEM_NAME,SUM(S.Quantity * S.UnitPrice) AS 'REVENUE' FROM Sales S
JOIN
ITEM I ON S.ItemID = I.ITEM_ID WHERE DATEPART(MONTH,S.SaleDate) = 10
GROUP BY I.ITEM_NAME ORDER BY Revenue DESC;
```

	ITEM_NAME	REVENUE
1	KitKat	15600.00

Q3.

```sql
SELECT TOP 1 I.ITEM_NAME, SUM(S.Quantity) AS 'TOTAL_SALES' FROM Sales S
JOIN
ITEM I ON S.ItemID = I.ITEM_ID
JOIN
SHOP SP ON SP.SHOP_ID = S.ShopID WHERE DATEPART(MONTH,S.SaleDate) = 10 AND SHOP_ID = 1
GROUP BY ITEM_NAME ORDER BY TOTAL_SALES DESC
```

	ITEM_NAME	TOTAL_SALES
1	Munch	350

Q4.

```sql
SELECT I.ITEM_NAME, SUM(S.Quantity*S.UnitPrice) AS 'REVENUE' FROM Sales S
JOIN
ITEM I ON S.ItemID = I.ITEM_ID WHERE DATEPART(MONTH,S.SaleDate) = 10
GROUP BY I.ITEM_NAME HAVING SUM(S.Quantity*S.UnitPrice) > 10000
```

	ITEM_NAME	REVENUE
1	KitKat	15600.00
2	MilkyBar	10050.00

Q5.

```sql
SELECT TOP 1 SP.SHOP_NAME, SUM(S.Quantity*S.UnitPrice) AS 'REVENUE' FROM Sales S
JOIN
SHOP SP ON SP.SHOP_ID = S.ShopID WHERE DATEPART(MONTH,S.SaleDate) = 10  GROUP BY
SP.SHOP_NAME ORDER BY REVENUE DESC
```

	SHOP_NAME	REVENUE
1	Jyothi Stores	26600.00