Question 1:

Write SQL code in a word document that will answer the questions below using the following two tables.

- **Find the latest StoreStock for each StoreCode, ProductCode pair**

```
WITH LatestInventory AS (
  SELECT
    StoreCode,
    ProductCode,
    MAX(Date) AS LatestDate
  FROM
    Inventory
  GROUP BY
    StoreCode, ProductCode
)
SELECT
  i.StoreCode,
  i.ProductCode,
  i.StoreStock,
  i.Date
FROM
  Inventory i
JOIN LatestInventory
ON
  i.StoreCode = LatestInventory.StoreCode
  AND i.ProductCode = LatestInventory.ProductCode
  AND i.Date = LatestInventory.LatestDate;
```

- **Sum sales by BuildingType**

```
SELECT
  S.BuildingType,
  SUM(I.SalesRevenue) AS TotalSales
FROM
  Inventory I
JOIN
  Store S
ON
  I.StoreCode = S.StoreCode
GROUP BY
  S.BuildingType;
```

- **List stores description which have sales revenue lower than 50TL in 2014 May**

```
SELECT
  S.StoreDescription,
  SUM(I.SalesRevenue) AS TotalSales
FROM
  Inventory I
JOIN
  Store S
ON
  I.StoreCode = S.StoreCode
WHERE
  I.Date BETWEEN '2014-05-01' AND '2014-05-31'
GROUP BY
  S.StoreDescription
HAVING
  SUM(I.SalesRevenue) < 50;
```

- **In February 2014, what is the difference between the highest-selling store and the least-selling store?**

```
WITH FebruarySales AS (
  SELECT
    StoreCode,
    SUM(COALESCE(SalesRevenue, 0)) AS TotalSales
  FROM
    Inventory
  WHERE
    Date BETWEEN '2014-02-01' AND '2014-02-28'
  GROUP BY
    StoreCode
),
FebruarySaleswAllStores AS (
SELECT s.*, COALESCE(f.TotalSales, 0) AS TotalSales FROM Store s
LEFT JOIN FebruarySales f
ON f.StoreCode = s.StoreCode)
SELECT
  MAX(TotalSales) - MIN(TotalSales) AS SalesDifference
FROM
  FebruarySaleswAllStores;
```