```
- Ouestion 1
SELECT C.CustomerName, C.Gender, S.SalesPersonName, S.City FROM Fact_ProductSales P
    INNER JOIN Dim_Customer C ON P.CustomerID = C.CustomerID
    INNER JOIN Dim_SalesPerson S ON P.SalesPersonID = S.SalesPersonID
    INNER JOIN Dim Date D ON P.SalesDateKey = D.DateKey
    WHERE D.MONTHNAME = "September" AND D.YEAR = 2015 AND P.SalesPrice > 20 AND
P.Quantity > 8;
-- Question 2
SELECT S.StoreName, S.City, Pr.ProductName FROM Fact_ProductSales P
    INNER JOIN Dim_Store S ON P.StoreID = S.StoreID
    INNER JOIN Dim_Product Pr ON P.ProductID = Pr.ProductKey
    INNER JOIN Dim_Date D ON P.SalesDateKey = D.DateKey
    WHERE D.MONTHNAME = "March" AND D.YEAR = 2017 AND P.ProductCost < 50 AND S.City =
"Boulder";
-- Ouestion 3
SELECT SalesPersonName, SUM(P.SalesPrice * P.Quantity) AS `Total Revenue` FROM
Fact ProductSales P
    INNER JOIN Dim_SalesPerson S ON P.SalesPersonID = S.SalesPersonID
    INNER JOIN Dim Date D ON P.SalesDateKey = D.DateKey
    WHERE D.YEAR = 2017
    GROUP BY S.SalesPersonID
    ORDER BY 'Total Revenue' DESC
    LIMIT 2:
-- Question 4
SELECT C.CustomerName, SUM(P.SalesPrice * P.Quantity) AS `Total Revenue` FROM
Fact ProductSales P
    INNER JOIN Dim_Customer C ON P.CustomerID = C.CustomerID
    INNER JOIN Dim_Date D ON P.SalesDateKey = D.DateKey
    WHERE D.YEAR = 2017
    GROUP BY C.CustomerID
    ORDER BY 'Total Revenue' ASC
    LIMIT 1;
 - Ouestion 5
SELECT S.StoreName, SUM(P.SalesPrice) AS `Total Sales Price` FROM Fact_ProductSales P.
    INNER JOIN Dim_Store S ON P.StoreID = S.StoreID
    INNER JOIN Dim_Date D ON P.SalesDateKey = D.DateKey
    WHERE D.YEAR > 2010 AND D.YEAR < 2017
    GROUP BY S.StoreID
```

```
ORDER BY S.StoreName ASC;
-- Question 6
SELECT S.StoreName, Pr.ProductName, SUM((SalesPrice*Quantity)-(ProductCost*Quantity))
AS `Total Profits` FROM Fact ProductSales P
    INNER JOIN Dim_Store S ON P.StoreID = S.StoreID
    INNER JOIN Dim_Product Pr ON P.ProductID = Pr.ProductKey
    INNER JOIN Dim_Date D ON P.SalesDateKey = D.DateKey
   WHERE D.Year = 2010 AND Pr.ProductName LIKE '%Jasmine Rice%'
   GROUP BY S.StoreID, Pr.ProductName;
-- Question 7
SELECT SUM(P.SalesPrice * P.Quantity) AS `Total Revenue`, D.Quarter FROM
Fact ProductSales P
    INNER JOIN Dim_Date D ON P.SalesDateKey = D.DateKey
    INNER JOIN Dim_Store S ON P.StoreID = S.StoreID
   WHERE D.YEAR = 2016 AND S.StoreName = "ValueMart Boulder"
   GROUP BY D.QUARTER
    ORDER BY D.QUARTER ASC;
 - Question 8
SELECT C.CustomerName, SUM(P.SalesPrice) AS `Total Sales Price` FROM Fact ProductSales
    INNER JOIN Dim_Customer C ON P.CustomerID = C.CustomerID
   WHERE C.CustomerName = "Melinda Gates" OR C.CustomerName = "Harrison Ford"
   GROUP BY C.CustomerID;
-- Question 9
SELECT S.StoreName, P.SalesPrice, Quantity FROM Fact_ProductSales P
   INNER JOIN Dim_Store S ON P.StoreID = S.StoreID
    INNER JOIN Dim_Date D ON P.SalesDateKey = D.DateKey
   WHERE D.YEAR = 2017 AND D.MONTHNAME = "March" AND D.DAYOFMONTH = 12;
-- Ouestion 10
SELECT S.SalesPersonName, SUM(P.SalesPrice * P.Quantity) AS `Total Revenue` FROM
Fact_ProductSales P
    INNER JOIN Dim_SalesPerson S ON P.SalesPersonID = S.SalesPersonID
    GROUP BY S.SalesPersonID
   ORDER BY 'Total Revenue' DESC
   LIMIT 1;
-- Ouestion 11
-- PLEASE NOTE
-- The instructions were ambiguous on this one on whether or not to show the total
-- I interpreted the instructions to mean just show the product name (organized by
highest total profit) but don't show the profit column
```

```
-- IF you meant show the profit column, just remove the outer Select statement from
the below, and you'll get the top 3 product names and total profits organized by max
profit.
SELECT x.ProductName FROM (
    SELECT Pr.ProductName, SUM((SalesPrice*Quantity)-(ProductCost*Quantity)) AS `Total
Profit` FROM Fact_ProductSales P
       INNER JOIN Dim_Product Pr ON P.ProductID = Pr.ProductKey
       GROUP BY P.ProductID
       ORDER BY 'Total Profit' DESC
       LIMIT 3
) as x;
 - Ouestion 12
SELECT D.YEAR, D.MONTHNAME, SUM(P.SalesPrice * P.Quantity) AS `Total Revenue` FROM
Fact_ProductSales P
    INNER JOIN Dim Date D ON P.SalesDateKey = D.DateKey
   WHERE D.Year = 2017 AND D.MONTH >= 1 AND D.MONTH <= 3
   GROUP BY D.MONTHNAME;
-- Question 13
SELECT Pr.ProductName, ROUND(AVG(P.ProductCost),2) AS `Average Product Cost`,
ROUND(AVG(P.SalesPrice),2) AS `Average Sales Price` FROM Fact_ProductSales P
    INNER JOIN Dim_Product Pr ON P.ProductID = Pr.ProductKey
    INNER JOIN Dim_Date D ON P.SalesDateKey = D.DateKey
   WHERE D.YEAR = 2017
   GROUP BY Pr.ProductName;
-- Question 14
SELECT C.CustomerName, ROUND(AVG(P.SalesPrice),2) AS `Average Sales Price`,
ROUND(AVG(P.Quantity),2) AS `Average Quantity` FROM Fact_ProductSales P
    INNER JOIN Dim Customer C ON P.CustomerID = C.CustomerID
   WHERE C.CustomerName = "Melinda Gates"
   GROUP BY C.CustomerName;
-- Question 15
SELECT S.StoreName, ROUND(MAX(P.SalesPrice),2) AS `Maximum Sales Price`,
ROUND(MIN(P.SalesPrice),2) AS `Minimum Sales Price` FROM Fact_ProductSales P
    INNER JOIN Dim_Store S ON P.StoreID = S.StoreID
   WHERE S.City = "Boulder"
   GROUP BY S.StoreName;
```