

Table: customers		
Column	Data type	Constraints
Zip	INTEGER	
CustID	INTEGER	

Table: orders		
Column	Data type	Constraints
OrderType		

OrderID		
PartID		
Quantity		
CustID		
Date		

Table: parts		
Column	Data type	Constraints

Name		
Price		
PartID		
UPC		

Table: States		
Column	Data type	Constraints
State Code	INTEGER	•PRIMARY KEY

State Abbreviation	TEXT	
State Name	TEXT	

Table: ZipCodes		
Column	Data type	Constraints
zip	INT	•PRIMARY KEY
city	TEXT	
state	TEXT	

latitude	NUMERIC	
longitude	NUMERIC	

View: HW08Q01
Query:
<pre>SELECT * FROM Q040SalesByGeoZip WHERE 22500 &gt; (69*(33.4307 - latitude) + (69*0.0559626))</pre>

View: Q010SalesValueByOrder

Query:

```
SELECT OrderType,  
       OrderID,  
       orders.PartID,  
       Quantity,  
       CustID,  
       Date,  
       Name,  
       Price,  
       IIPC
```

View: Q020RRSalesByCustomer

Query:

```

SELECT CustID,
       SUM(SalesValue) AS RRSales,
       UPC,
       OrderType
FROM Q010SalesValueByOrder
WHERE OrderType = 'RR'
GROUP BY CustID

```

View: Q020SalesByCustomer

Query:

```

SELECT CustID,
       OrderType,
       CASE WHEN OrderType = 'EO'
            THEN SUM(SalesValue)
            ELSE 0
       END AS EOSales,
       CASE WHEN OrderType = 'RR'
            THEN SUM(SalesValue)
            ELSE 0
       END AS RRSales
FROM Q010SalesValueByOrder

```

View: Q030SalesByType

Query:

```
SELECT RR.CustID,  
       RR.RRSales,  
       E0.E0Sales,  
       ROUND(100*(E0.E0Sales/RR.RRSales)) AS RatioEmergencySale,  
       RR.RRSales + E0.E0Sales AS Sales  
FROM Q020SalesByCustomer AS RR INNER JOIN Q020SalesByCustomer AS E0  
ON E0.CustID = RR.CustID  
GROUP BY RR.CustID  
ORDER BY Sales DESC
```

View: Q031SalesWithZip

Query:



```
SELECT Q030SalesByType.CustID,  
       Sales,  
       RatioEmergencySale,  
       Zip  
FROM customers INNER JOIN Q030SalesByType  
ON customers.CustID = Q030SalesByType.CustID
```

View: Q040SalesByGeoZip

Query:

```
SELECT CustID,  
       Q031SalesWithZip.Zip,  
       Sales,  
       RatioEmergencySale,  
       city,  
       state,  
       latitude,  
       longitude  
FROM Q031SalesWithZip INNER JOIN ZipCodes
```

