1. Checking if order id is primary key or not?

	Order ID	numberoforders
1	AE-2011-9160	2
2	AE-2013-1130	2
3	AE-2013-1530	2
4	AE-2014-3830	6
5	AG-2011-1390	2
6	AG-2011-4560	3
7	AG-2011-8180	5
8	AG-2011-9890	3
9	AG-2012-170	2
10	AG-2012-1940	2
11	AG-2012-2220	3
12	AG-2012-2430	3
13	AG-2012-3190	2
14	AG-2012-4060	5
15	AG-2012-4630	10

For one order ID there are multiple orders, so this cannot be a primary key

2. Checking if [row id] is primary key or not

Row ID Order ID numberoforders

Since there are no duplicates here we can say there [Row ID] is primary key

3. Checking if the dates are correct and appropriate?

Row ID Order ID Order Date Ship Date Ship Mode Customer ID Customer Name Segment City State Country Postal Code Market Region

There are no such rows where shipping date is more than order date so dates are all correct

4. How many distinct modes of shipping are available?

	Ship Mode	
1	First Class	
2	Same Day	
3	Standard Class	
4	Second Class	

5. Min max number of days for different shipping modes?

	Ship Mode	mindays	maxdays
1	First Class	1	3
2	Same Day	0	1
3	Standard Class	4	7
4	Second Class	2	5

6. Find daily, monthly, yearly, number of products sold

-- Lists the Daily Number of Products Sold

	Day	TotalltemsSold
1	2011-01-01 00:00:00.000	19
2	2011-01-02 00:00:00.000	1
3	2011-01-03 00:00:00.000	48
4	2011-01-04 00:00:00.000	52
5	2011-01-05 00:00:00.000	24
6	2011-01-06 00:00:00.000	23
7	2011-01-07 00:00:00.000	68
8	2011-01-08 00:00:00.000	46
9	2011-01-09 00:00:00.000	30
10	2011-01-10 00:00:00.000	67

-- Lists the Monthly Number of Products Sold

	Month	TotalltemsSold
1	1	8843
2	2	7281
3	3	10481
4	4	10552
5	5	13042
6	6	18119
7	7	10984
8	8	17611
9	9	20542
10	10	16049
11	11	22494
12	12	22314

-- Lists the Yearly Number of Products Sold

	Year	TotalltemsSold
1	2011	31443
2	2012	38111
3	2013	48136
4	2014	60622

7. Find daily, monthly, yearly, number of customers who placed orders

-- Lists the Daily Number of Customers

	_	
	Day	TotalCustomers
1	2011-01-01 00:00:00.000	4
2	2011-01-02 00:00:00.000	1
3	2011-01-03 00:00:00.000	11
4	2011-01-04 00:00:00.000	9
5	2011-01-05 00:00:00.000	4
6	2011-01-06 00:00:00.000	6
7	2011-01-07 00:00:00.000	11
8	2011-01-08 00:00:00.000	6
9	2011-01-09 00:00:00.000	3
10	2011-01-10 00:00:00.000	11

-- Lists the Monthly Number of Customers

	Month	TotalCustomers
1	1	821
2	2	736
3	3	878
4	4	854
5	5	946
6	6	1151
7	7	874
8	8	1134
9	9	1174
10	10	980
11	11	1194
12	12	1168

-- Lists the Yearly Number of Customers

	Year	TotalCustomers
1	2011	1309
2	2012	1373
3	2013	1458
4	2014	1511

8. Find daily, monthly, yearly, revenue and profit

-- Lists the Daily Revenue and Profit

	_		
	Day	TotalSales	TotalProfit
1	2011-01-01 00:00:00.000	808.56	198.87
2	2011-01-02 00:00:00.000	314.22	3.12
3	2011-01-03 00:00:00.000	4503.54	184.6
4	2011-01-04 00:00:00.000	2808.87	635.12
5	2011-01-05 00:00:00.000	3662.31	1053.37
6	2011-01-06 00:00:00.000	622.54	86.13
7	2011-01-07 00:00:00.000	7123.02	1541.14
8	2011-01-08 00:00:00.000	6293.26	-630.65
9	2011-01-09 00:00:00.000	813.75	-117.63
10	2011-01-10 00:00:00.000	6794.18	1444

-- Lists the Monthly Revenue and Profit

	Month	TotalSales	TotalProfit
1	1	675133.67	73535.38
2	2	543739.38	70932.2
3	3	770500.94	94087.52
4	4	698561.21	73513.63
5	5	904012.34	104509.78
6	6	1269716.75	147079.42
7	7	749381.84	78070.09
8	8	1293833.17	151854.11
9	9	1437380.11	170438.18
10	10	1168184.39	157269.36
11	11	1551277.34	175449.48
12	12	1580780.77	170718.13

-- Lists the Yearly Revenue and Profit

	Year	TotalSales	TotalProfit
1	2011	2259450.9	248940.81
2	2012	2677438.69	307415.28
3	2013	3405746.45	406935.23
4	2014	4299865.87	504165.97

9. Find daily, monthly, yearly, ARPC(average revenue per customer)

-- Lists the Daily Average Revenue Per

Customer

	Day	ARPC
1	2011-01-01 00:00:00.000	49.72
2	2011-01-02 00:00:00.000	3.12
3	2011-01-03 00:00:00.000	16.78
4	2011-01-04 00:00:00.000	70.57
5	2011-01-05 00:00:00.000	263.34
6	2011-01-06 00:00:00.000	14.35
7	2011-01-07 00:00:00.000	140.1
8	2011-01-08 00:00:00.000	-105.11
9	2011-01-09 00:00:00.000	-39.21
10	2011-01-10 00:00:00.000	131.27

-- Lists the Monthly Average Revenue Per Customer

	Month	ARPC
1	1	89.57
2	2	96.38
3	3	107.16
4	4	86.08
5	5	110.48
6	6	127.78
7	7	89.33
8	8	133.91
9	9	145.18
10	10	160.48
11	11	146.94
12	12	146.16

-- Lists the Yearly Average Revenue Per Customer

	Year	ARPC
1	2013	279.11
2	2014	333.66
3	2011	190.18
4	2012	223.9

Over View of Data

--Daily View

	Day	Customers	ProductsSold	TotalProfit	ARPC
1	2011-01-01 00:00:00.000	4	19	198.87	49.72
2	2011-01-02 00:00:00.000	1	1	3.12	3.12
3	2011-01-03 00:00:00.000	11	48	184.6	16.78
4	2011-01-04 00:00:00.000	9	52	635.12	70.57
5	2011-01-05 00:00:00.000	4	24	1053.37	263.34
6	2011-01-06 00:00:00.000	6	23	86.13	14.35
7	2011-01-07 00:00:00.000	11	68	1541.14	140.1
8	2011-01-08 00:00:00.000	6	46	-630.65	-105.11
9	2011-01-09 00:00:00.000	3	30	-117.63	-39.21
10	2011-01-10 00:00:00.000	11	67	1444	131.27

-- Yearly View

	Year	Customers	ProductsSold	TotalProfit	ARPC
1	2013	1458	48136	406935.23	279.11
2	2014	1511	60622	504165.97	333.66
3	2011	1309	31443	248940.81	190.18
4	2012	1373	38111	307415.28	223.9

-- Monthly View

	Month	Customers	ProductsSold	TotalProfit	ARPC
1	1	821	8843	73535.38	89.57
2	2	736	7281	70932.2	96.38
3	3	878	10481	94087.52	107.16
4	4	854	10552	73513.63	86.08
5	5	946	13042	104509.78	110.48
6	6	1151	18119	147079.42	127.78
7	7	874	10984	78070.09	89.33
8	8	1134	17611	151854.11	133.91
9	9	1174	20542	170438.18	145.18
10	10	980	16049	157269.36	160.48
11	11	1194	22494	175449.48	146.94
12	12	1168	22314	170718.13	146.16