

```
use sales
select*from Online_Retail
```

```
delete from Online_Retail
where CustomerID is null
```

```
-- Q1. What is the date between where total data have?
select max(InvoiceDate) as max_date from Online_Retail
```

```
select min(InvoiceDate) as min_date from Online_Retail
-- so we have data between 01-12-2010 to 09-12-2011
```

```
-- Q2. (i)How Many Customer in this table
select count(distinct(CustomerID)) from Online_Retail --Total 4372 in this table
```

```
-- (ii)How Many country in this table
select count(distinct(Country)) from Online_Retail -- Total 37 country in this
table
```

```
-- Q3. (i)Top 3 months for highest sales?
select top 3 Year(InvoiceDate) as year,MONTH(InvoiceDate) as month,sum(UnitPrice)
as total_sales
from Online_Retail group by Year(InvoiceDate),MONTH(InvoiceDate) order by
total_sales desc
/* So after see the result we find top 3 month :
1. month 11/2011 where total sales = 195298.518818825
2. month 10/2011 where total sales = 186582.999311917
3. month 09/2011 where total sales = 129301.449445553
*/
```

```
-- (ii) Find top 3 customer for highest sales?
select top 3 CustomerID,sum(UnitPrice) total_spend from Online_Retail
group by CustomerID order by total_spend desc
/* So after see the result we find top 3 customer:
1. CustomerId = 14096 , Total_Spend = 41376.3299628794
2. CustomerId = 15098 , Total_Spend = 40278.8999996185
3. CustomerId = 14911 , Total_Spend = 31060.6600694656
```

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```
-- (iii)Find top 3 country for highest sales?
```

```
select top 3 Country,sum(UnitPrice) total_sales from Online_Retail  
group by Country order by total_sales desc
```

```
/* So after see the result we find top 3 country:
```

```
1. Country = United Kingdom , Total_sales =  
1178277.25649832  
2. Country = France , Total_Sales = 42871.2401471324  
3. Country = EIRE , Total_Sales = 38253.5800894275
```



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*/
```

```
--Q4. Find Top 2 Customer who purchased highest number of items in jan 2011 ?
```

```
select top 2 CustomerID , sum(Quantity) total_qnt from Online_Retail  
where '2011-01-01' < InvoiceDate and InvoiceDate < '2011-01-31'  
group by CustomerID order by total_qnt desc
```

```
/* So after see the result we find top 2 customer:
```

```
1. CustomerID = 14646 , Total_item_purchase = 20300  
2. CustomerID = 15749 , Total_item_purchase = 9014
```



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```
--Q5. Find Highest number of items sale in dec 2011 ?
```

```
select top 1 Country , sum(Quantity) total_qnt from Online_Retail  
where year(InvoiceDate)='2011' and month(InvoiceDate)='12'  
group by Country order by total_qnt desc
```

```
/* So after see the result we find a country:
```

```
1. country = United Kingdom , Total_item_purchase = 177584
```

```
*/
```

```
--Q6. Show the items description(Product name) which sale in between 01-02-2011 and  
10-02-2011
```



```
select distinct(Description) from Online_Retail
```

```
where InvoiceDate between '2011-02-01' and '2011-02-10'
----- Total 1526 different product sale in between these date -----
```

--Q7. Show the CustomerID and country name which spend highest money in june 2011?

```
select top 1 CustomerID, Country, sum(UnitPrice) total_spend from Online_Retail
where year(InvoiceDate)='2011' and month(InvoiceDate)='06'
group by CustomerID, Country order by total_spend desc
```

/* So after see the result we find a customer name and country:

```
1. CustomerID = 15098 , country = United Kingdom ,
   Total_spend = 40278.8999996185
```

↗

*/

--Q8. find the total number of item sale in france in nov 2011?

```
select top 1 Country, count(UnitPrice) total_spend from Online_Retail
where year(InvoiceDate)='2011' and month(InvoiceDate)='09'
group by Country order by total_spend desc
```

--Q9. Which country spend Lowest money in dec 2011?

```
select top 1 Country, sum(UnitPrice) total_spend from Online_Retail where YEAR
(InvoiceDate)='2011'
group by Country order by total_spend
```

/* After see the result we find the min spend country name :

```
1. Country = Saudi Arabia, Total_spend = 24.1099999248981
```

*/

--Q10. Top 5 product which purchased highest no of times in the table?

```
select Description, COUNT(Quantity) Total_Quantity_sale from Online_Retail
group by Description order by Total_Quantity_Sale desc
```

/* After see the result we find total 3885 products in this table :
following top 5 which purchased highest time are here:

Item Name	Total_Quantity_Sale
1. WHITE HANGING HEART T-LIGHT HOLDER	2070
2. REGENCY CAKESTAND 3 TIER	1905
3. JUMBO BAG RED RETROSPOT	1662
4. ASSORTED COLOUR BIRD ORNAMENT	1418
5. PARTY BUNTING	1416

*/