|  |  |  |  |
| --- | --- | --- | --- |
| Customer |  |  |  |
| CustID | CustName | BirthDate | Gender |
| 1 | Jack | 1.1.1980 | M |
| 2 | John | 2.3.1982 | M |
| 3 | Mary | 1.5.1976 | F |
| 4 | Kevin | 10.9.1964 | M |
| 5 | Jane | 7.4.1990 | F |
| Deals |  |  |
| DealID | DealType | DealStatus |
| 100 | Local | Active |
| 200 | Local | Active |
| 300 | Goods | Active |
| 400 | Goods | Inactive |
| 500 | Travel | Active |
| 600 | Travel | Active |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Purchases |  |  |  |  |
| PurchaseID | CustID | DealID | PurchaseDate | Amount |
| 50 | 1 | 100 | 1.1.2016 | 1 |
| 51 | 1 | 300 | 2.1.2016 | 1 |
| 52 | 1 | 100 | 5.10.2016 | 2 |
| 53 | 2 | 200 | 8.8.2016 | 3 |
| 54 | 2 | 100 | 10.9.2016 | 1 |
| 55 | 3 | 600 | 10.7.2016 | 2 |
| 76 | 4 | 500 | 5.5.2016 | 1 |
| 78 | 5 | 200 | 21.8.2016 | 2 |
| 79 | 5 | 100 | 4.10.2016 | 3 |

Find the sum amount of deals which are sold in the first quarter of the year. (2016)

Create a list of customers (custid) , who purchased Dealtype=“Local” deals.

CustID of the oldest customer.

Create a list of all Customers with their last purchase date and that purchase's DealType. (custid, purchasedate,dealtype)

Get the second highest deal (deal with the second highest cumulative purchase amount) which a customer purchased along with its amount.

Outpust: custid,dealid,amount

(Explore : Rank, dense\_rank, row\_number() functions to solve this)

Find customer ids who is male and has purchased only 2 distinct deals  and has purchaed deal of 100 and hasnt purchased deal 600 and deal types are local

Ans-

select custid, count(distinct dealid), max(case when dealid ='100' then 1 else 0 end) as flag\_100, max(case when dealid='600' then 1 else 0 end) as flag\_600 from table1 group by custid having count(dealid)=2 and flag\_100=1 and flag\_600=0