#### 1. Identify the make and model of the car that has sold the most

#### 2. Identify the cities where more than 20 customers are from

```
SELECT City, COUNT(City) as CityCount FROM Customer GROUP BY City
HAVING COUNT(CITY) > 20
ORDER BY CityCount asc;
```

#### 3. Identify employee with lowest average customer satisfaction rating

# ${f 4}$ . Calculate the total cost that is spent on servicing cars that are under warranty

```
SELECT SUM(Service_Cost) as Total_ServiceCost
FROM ServiceDetails
WHERE Service Type = 'Warranty';
```

### 5. Generate list of cars that are still under warranty, and the name and email address of the customer it belongs to

### 6. Identify the dealer location that has made the most money in the given date range i.e., '01-NOV-2014' and '30-DEC-2014'

```
SELECT Location
FROM Dealer
WHERE DealerId = (
      SELECT Dealer Id
      FROM Employee join SaleDetails on Employee.EID = SaleDetails.EId
      WHERE Employee.EID in (
            SELECT Sales ID
            FROM (
                  SELECT SaleDetails.EId as Sales ID, SellingPrice,
                         BuyingPrice, Refurbish Cost, SellingPrice -
                         BuyingPrice - Refurbish Cost as Profit
                  FROM SaleDetails INNER JOIN BuyDetails
                       on SaleDetails.VIN = BuyDetails.VIN
                       JOIN RefurbishDetails
                       on BuyDetails.VIN = RefurbishDetails.VIN
                       AND sellingdate BETWEEN '01-NOV-2014' AND '30-DEC-2014'
            WHERE Profit =
                   ( SELECT MAX(SellingPrice - BuyingPrice - Refurbish Cost)
                    FROM SaleDetails
                    INNER JOIN BuyDetails on SaleDetails.VIN = BuyDetails.VIN
                    JOIN RefurbishDetails on BuyDetails.VIN =
                         RefurbishDetails.VIN
                   AND sellingdate BETWEEN '01-NOV-2014' AND '30-DEC-2014')
                               ));
```

### 7. Identify the month that has the maximum car sales in a given year, e.g. 2008

### 8. Calculate the commission that should be paid to each sales employee for a particular month, e.g. March 2014

#### 9. List all sales employees with their total number of sales

### 10. Identify employees making more/less than some number of sales i.e., 2 over a given time range

## 11. Generate list of how many times each sales employee has received a particular rating

```
SELECT EId, CustomerRating, COUNT(VIN) as Number_of_sales
FROM SaleDetails
GROUP BY ROLLUP(EId, CustomerRating);
```

```
UPDATE Customer
SET FirstName ='Priyanka', LastName = 'Murthy'
WHERE CustomerID = 'Cust167';
UPDATE Customer
SET FirstName ='Nathan', LastName = 'Huang'
WHERE CustomerID = 'Cust160';
UPDATE Customer
SET FirstName ='Sriranga', LastName = 'Ramakrishna'
WHERE CustomerID = 'Cust025';
SQL> SELECT Warranty End Date, Car. Make, Car. Model, Customer. CustomerID,
Customer.FirstName,
         Customer.LastName, Customer.EmailID
 3 FROM SaleDetails Join Customer on SaleDetails.Customer ID =
Customer.CustomerID
    Join Car on SaleDetails.VIN = Car.VIN
WHERE Warranty End Date > sysdate ;
                        MODEL
WARRANTY MAKE
                                         CUSTOMERID FIRSTNAME
LASTNAME
               EMAILID
______
13-FEB-18 Ford Mustang
Huang RyanHarris@hexa.org
Civic
                                          Cust160 Nathan
                                    Cust167 Priyanka
26-NOV-17 Honda
               TravisHead@zoho.com
Murthy
19-JAN-18 Ford
                                  Cust025 Sriranga
                        Taurus
Ramakrishna NajibullahZadran@hotmail.com
```