-- IQ1

-- Drop view custbalance;

CREATE VIEW custbalance AS

SELECT Customer\_ID,Remaining\_Balance,

IF(Remaining\_Balance<50,null,Remaining\_Balance) as itemCost

FROM billingdetails;

SELECT count(itemCost) FROM custbalance;

-- IQ2

-- drop view custnameswbalance;

create view custnameswbalance AS

select customer\_name, bill\_number,

if(bill\_total>0, null,bill\_total) as custbal

from Customer cross join BillingDetails;

select \*

from custnameswbalance;

//IQ3- List the history of the car with vin = '4USBU53567L660273'. The history must include all tickets information, associated services, and replaced parts’ numbers, descriptions, and used quantities

SELECT ticketdetails.ticket\_id, ticketdetails.ticket\_date, ticketdetails.issue\_desc, ticketdetails.vin, partsneeded.part\_id, partsneeded.quantity\_used,partinventory.part\_desc

FROM ticketdetails

JOIN servicedetails

ON ticketdetails.ticket\_id=servicedetails.ticket\_id

JOIN partsneeded

ON servicedetails.service\_id=partsneeded.service\_id

JOIN partinventory

ON partsneeded.part\_id=partinventory.part\_id

WHERE vin = '4USBU53567L660273';

**//IQ4- Given part number ('390'), List information of all tickets associated with a service that used that part and the used quantity**

**SELECT partsneeded.quantity\_used, partsneeded.part\_id, partsneeded.service\_id, billingdetails.completed\_services, billingdetails.ticket\_id**

**FROM partsneeded**

**JOIN billingdetails**

**ON partsneeded.service\_id=billingdetails.service\_id**

**WHERE partsneeded.part\_id = 390;**

**// IQ5 How many tickets have been made in the interval between the two dates ('2015-01-06', '2015-02-07')?**

**SELECT COUNT(ticket\_id)**

**FROM ticketdetails**

**WHERE ticket\_date BETWEEN '2015-01-06' and '2015-02-07';**

**//IQ6- what is the total dollar values (labor and parts) associated with tickets in the previous query (IQ5)?**

**SELECT SUM(labor\_cost + total\_parts\_cost)**

**FROM billingdetails**

**INNER JOIN ticketdetails**

**ON billingdetails.ticket\_id=ticketdetails.ticket\_id**

**WHERE ticket\_date BETWEEN '2015-01-06' and '2015-02-07';**

**// IQ7- Given a part ID ('1211'), find the information of all suppliers (vendors) for that part?**

**SELECT availableparts.part\_id, availableparts.vendor\_id, vendor.vendor\_name, vendor.vendor\_phone**

**FROM availableparts**

**JOIN vendor**

**ON availableparts.vendor\_id=vendor.vendor\_id**

**WHERE availableparts.part\_id = 1211;**

**//IQ8- What is the part with highest demand?**

**SELECT MAX(quantity\_used) AS HighestDemand, part\_id**

**FROM partsneeded;**

**//IQ9 -What is the smallest, largest and average bill total?**

**SELECT MIN(bill\_total) AS SmallestPrice**

**FROM billingdetails;**

**SELECT MAX(bill\_total) AS LargestPrice**

**FROM billingdetails;**

**SELECT AVG(bill\_total)**

**FROM billingdetails;**

**//IQ10-What are the parts that are low in stock (available quantity <3) and require reorder? And show all suppliers for that part**

**SELECT availableparts.available\_quantity, availableparts.part\_id, vendor.vendor\_name, vendor.vendor\_phone**

**FROM availableparts**

**JOIN vendor ON availableparts.part\_id = vendor.part\_id**

**WHERE available\_quantity < 3;**