-- IQ1- How many customers with balance over \$50?

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- List all customer names, bills numbers, and each bill balance if the bill balance >0
- -- 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

CREATE VIEW Vin_Hist AS

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';

SELECT * from Vin Hist;

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

CREATE VIEW Part_Hist AS

 ${\tt SELECT\ parts} needed. quantity_used,\ partsneeded. part_id,\ partsneeded. service_id,$

billingdetails.completed services, billingdetails.ticket id

FROM partsneeded

JOIN billingdetails

ON partsneeded.service id=billingdetails.service id

WHERE partsneeded.part_id = 390;

```
SELECT * from Part_Hist;
-- IQ5 How many tickets have been made in the interval between the two dates ('2015-01-06', '2015-02-
07')?
CREATE VIEW Ticket Interval AS
SELECT COUNT(ticket id)
FROM ticketdetails
WHERE ticket date BETWEEN '2015-01-06' and '2015-02-07';
SELECT * from Ticket Interval;
-- IQ6- what is the total dollar values (labor and parts) associated with tickets in the previous query
(IQ5)?
CREATE VIEW Dollar_Total View AS
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';
SELECT * from Dollar Total View;
-- IQ7- Given a part ID ('1211'), find the information of all suppliers (vendors) for that part?
CREATE VIEW Part_Supplier_View AS
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 available parts.part id = 1211;
SELECT * from Part_Supplier_View;
-- IQ8- What is the part with highest demand?
CREATE VIEW Highest Demand View AS
SELECT MAX(quantity_used) AS HighestDemand, part_id
FROM partsneeded;
SELECT * from Highest Demand View;
-- IQ9 -What is the smallest, largest and average bill total?
CREATE VIEW Small_Large_View AS
SELECT MIN(bill_total) AS SmallestPrice
FROM billingdetails;
```

SELECT MAX(bill_total) AS LargestPrice

FROM billingdetails;
SELECT AVG(bill_total)
FROM billingdetails;
SELECT * from Small_Large_View;

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

CREATE VIEW Low_Stock_View AS

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;

SELECT * from Low_Stock_View;