VIEWS

1)

CREATE VIEW CUSTOMER\_V AS

SELECT PFIRSTNAME AS 'FIRST NAME', PLASTNAME AS 'LAST NAME', 'Premier' AS `Customer Type`, (YEAR(CURDATE())-YEAR(PDATEJOINED)) AS 'YEARS WITH US'

FROM PRIVATEINDIVIDUAL

INNER JOIN PREMIERCUSTOMER ON PREMIERCUSTOMER.CID = PRIVATEINDIVIDUAL.CID

UNION

SELECT PFIRSTNAME AS 'FIRST NAME', PLASTNAME AS 'LAST NAME', 'Steady' AS `Customer Type`, (YEAR(CURDATE())-YEAR(PDATEJOINED)) AS 'YEARS WITH US'

FROM PRIVATEINDIVIDUAL

INNER JOIN STEADYCUSTOMER ON STEADYCUSTOMER.CID = PRIVATEINDIVIDUAL.CID

UNION

SELECT PFIRSTNAME AS 'FIRST NAME', PLASTNAME AS 'LAST NAME', 'Prospective' AS `Customer Type`, (YEAR(CURDATE())-YEAR(PDATEJOINED)) AS 'YEARS WITH US'

FROM PRIVATEINDIVIDUAL

INNER JOIN PROSPECTIVECUSTOMER ON PROSPECTIVECUSTOMER.CID = PRIVATEINDIVIDUAL.CID

UNION

SELECT CORPNAME AS 'FIRST NAME', '' AS 'LAST NAME', 'Premier' AS `Customer Type`, (YEAR(CURDATE())-YEAR(DATEJOINED)) AS 'YEARS WITH US'

FROM CORPORATION

INNER JOIN PREMIERCUSTOMER ON PREMIERCUSTOMER.CID = CORPORATION.CID

UNION

SELECT CORPNAME AS 'FIRST NAME', '' AS 'LAST NAME', 'Steady' AS `Customer Type`, (YEAR(CURDATE())-YEAR(DATEJOINED)) AS 'YEARS WITH US'

FROM CORPORATION

INNER JOIN STEADYCUSTOMER ON STEADYCUSTOMER.CID = CORPORATION.CID

UNION

SELECT CORPNAME AS 'FIRST NAME', '' AS 'LAST NAME', 'Prospective' AS `Customer Type`, (YEAR(CURDATE())-YEAR(DATEJOINED)) AS 'YEARS WITH US'

FROM CORPORATION

INNER JOIN PROSPECTIVECUSTOMER ON PROSPECTIVECUSTOMER.CID = CORPORATION.CID;

2)

CREATE VIEW CUSTOMER\_ADDRESSES\_V AS

SELECT 'Corporation' AS `ACCOUNT TYPE`, CorpName AS FIRSTNAME, '' AS LASTNAME, 'Corporate' as `Address Type`, MAILING\_ADDRESS AS MAILING, BILLING\_ADDRESS AS BILLING, VEHICLE\_PICKUP AS PICKUP, VEHICLE\_DROPOFF AS DROPOFF

FROM CORPORATION

UNION

SELECT 'Individual' AS `ACCOUNT TYPE`, PFIRSTNAME AS FIRSTNAME, PLASTNAME AS LASTNAME, 'Private' as `Address Type`, PADDRESS AS MAILING, '' AS BILLING,''AS PICKUP,''AS DROPOFF

FROM PRIVATEINDIVIDUAL;

3)

CREATE VIEW PREMIER\_PROFIT\_V AS

SELECT PFIRSTNAME, PLASTNAME, PREMIERCUSTOMER.CID, PREMIERYEAR - (DISPLAY \* 50) AS PREMIERTOTAL, STEADYCOST, STEADYCOST - (PREMIERYEAR - (DISPLAY \* 50)) AS PROFIT

FROM (SELECT PFIRSTNAME, PLASTNAME,PREMIERCUSTOMER.CID,

COUNT(DISTINCT REFERREDCUSTOMERINSTANCE.CID) AS DISPLAY, ANNUALFEE \* 12 AS PREMIERYEAR, ORDER\_DATE, SUM(ITEMCOST) AS STEADYCOST, ORDER\_ID

FROM CUSTOMER

LEFT OUTER JOIN REFERREDCUSTOMERINSTANCE ON CUSTOMER.CID = REFERREDCUSTOMERINSTANCE.CID

RIGHT OUTER JOIN PRIVATEINDIVIDUAL ON CUSTOMER.CID = PRIVATEINDIVIDUAL.CID

RIGHT OUTER JOIN PREMIERCUSTOMER ON CUSTOMER.CID = PREMIERCUSTOMER.CID

INNER JOIN VEHICLE ON ( CUSTOMER.CID = VEHICLE.cID)

INNER JOIN `ORDER` USING (VIN)

INNER JOIN MAINTENANCE\_DETAILS USING (ORDER\_ID)

INNER JOIN MAINTENANCE\_ITEM ON (MAINTENANCE\_DETAILS.ITEM\_NAME =MAINTENANCE\_ITEM.ITEM\_NAME

AND MAINTENANCE\_DETAILS.AUTOMOBILE\_ID = MAINTENANCE\_ITEM.AUTOMOBILE\_ID)

WHERE ORDER\_DATE BETWEEN DATE\_SUB(CURDATE(),INTERVAL 1 YEAR) AND now()

GROUP BY PREMIERCUSTOMER.CID) G

NATURAL JOIN PREMIERCUSTOMER

WHERE PREMIERCUSTOMER.CID = G.CID

ORDER BY PROFIT DESC;

4)

CREATE VIEW MECHANIC\_MENTOR\_V AS

SELECT A.EMPLOYEENAME AS MENTOR, B.EMPLOYEENAME AS MENTEE, MSTARTDATE, MSKILL

FROM (SELECT EMPLOYEENAME,MSTARTDATE,MSKILL FROM MENTORING

INNER JOIN EMPLOYEE ON MENTORING.MENTORID = EMPLOYEE.EMPLOYEEID) A

INNER JOIN

(SELECT EMPLOYEENAME,MSTARTDATE,MSKILL FROM MENTORING

INNER JOIN EMPLOYEE ON MENTORING.MENTOREEID = EMPLOYEE.EMPLOYEEID) B

USING (MSTARTDATE,MSKILL)

ORDER BY MENTOR, MENTEE;

5)

CREATE VIEW PROSPECTIVE\_RESURRECTION\_V AS

SELECT PFIRSTNAME AS FIRSTNAME, PLASTNAME AS LASTNAME, SPECIALDATE AS PREIVOUSCONTACTDATE FROM PRIVATEINDIVIDUAL INNER JOIN CUSTOMER ON PRIVATEINDIVIDUAL.cid = CUSTOMER.cid

INNER JOIN PROSPECTIVECUSTOMER ON CUSTOMER.cid = PROSPECTIVECUSTOMER.cid

INNER JOIN SPECIAL ON PROSPECTIVECUSTOMER.CID = SPECIAL.CID

WHERE PROSPECTIVECUSTOMER.timescontacted >=3 AND DATE\_SUB(CURDATE(), INTERVAL 1 YEAR) > (SELECT MAX(SPECIALDATE)) >=1

UNION

SELECT CORPNAME AS FIRSTNAME, '' AS PLASTNAME, SPECIALDATE AS PREIVOUSCONTACTDATE FROM CORPORATION INNER JOIN CUSTOMER ON CORPORATION.cid = CUSTOMER.cid

INNER JOIN PROSPECTIVECUSTOMER ON CUSTOMER.cid = PROSPECTIVECUSTOMER.cid

INNER JOIN SPECIAL ON PROSPECTIVECUSTOMER.CID = SPECIAL.CID

WHERE PROSPECTIVECUSTOMER.timescontacted >=3 AND DATE\_SUB(CURDATE(), INTERVAL 1 YEAR) > (SELECT MAX(SPECIALDATE)) >=1;

QUERIES

-- 1

SELECT CONCAT(PFIRSTNAME, PLASTNAME) AS CUSTOMERNAME, 'PRIVATE INDIVIDUAL' AS CUSTOMERTYPE,

CEMAIL, CPHONE

FROM CUSTOMER

NATURAL JOIN PRIVATEINDIVIDUAL

UNION

SELECT CORPNAME AS CUSTOMERNAME,'CORPORATE' AS CUSTOMERTYPE,CEMAIL, CPHONE

FROM CUSTOMER

NATURAL JOIN CORPORATION;

-- 2

SELECT GROUP\_CONCAT(PFIRSTNAME,PLASTNAME) AS `NAME`, ORDER\_DATE, SUM(ITEMCOST) AS TOTALCOST

FROM CUSTOMER

INNER JOIN PRIVATEINDIVIDUAL ON CUSTOMER.CID = PRIVATEINDIVIDUAL.CID

INNER JOIN VEHICLE ON ( CUSTOMER.CID = VEHICLE.cID)

INNER JOIN `ORDER` USING (VIN)

INNER JOIN MAINTENANCE\_DETAILS USING (ORDER\_ID)

INNER JOIN MAINTENANCE\_ITEM ON (MAINTENANCE\_DETAILS.ITEM\_NAME =MAINTENANCE\_ITEM.ITEM\_NAME AND MAINTENANCE\_DETAILS.AUTOMOBILE\_ID = MAINTENANCE\_ITEM.AUTOMOBILE\_ID)

GROUP BY CUSTOMER.CID,ORDER\_ID,MAINTENANCE\_ITEM.AUTOMOBILE\_ID,MAINTENANCE\_ITEM.ITEM\_NAME

UNION

SELECT CORPNAME AS `NAME`, ORDER\_DATE, SUM(ITEMCOST) AS TOTALCOST

FROM CUSTOMER

INNER JOIN CORPORATION ON CUSTOMER.CID = CORPORATION.CID

INNER JOIN VEHICLE ON ( CUSTOMER.CID = VEHICLE.cID)

INNER JOIN `ORDER` USING (VIN)

INNER JOIN MAINTENANCE\_DETAILS USING (ORDER\_ID)

INNER JOIN MAINTENANCE\_ITEM ON (MAINTENANCE\_DETAILS.ITEM\_NAME =MAINTENANCE\_ITEM.ITEM\_NAME AND MAINTENANCE\_DETAILS.AUTOMOBILE\_ID = MAINTENANCE\_ITEM.AUTOMOBILE\_ID)

GROUP BY CUSTOMER.CID,ORDER\_ID,MAINTENANCE\_ITEM.AUTOMOBILE\_ID,MAINTENANCE\_ITEM.ITEM\_NAME;

-- 3

SELECT CUSTOMERNAME ,CUSTOMER.CID, SUM(TOTALCOST) AS NETCOST

FROM(SELECT CONCAT(PFIRSTNAME, PLASTNAME) AS CUSTOMERNAME, CUSTOMER.CID, ORDER\_DATE,SUM(ITEMCOST) AS TOTALCOST, SUM(LOYALTY\_POINTS\_SPENT \* 5) AS POINTS

FROM CUSTOMER

INNER JOIN PRIVATEINDIVIDUAL ON CUSTOMER.CID = PRIVATEINDIVIDUAL.CID

LEFT OUTER JOIN STEADY\_CUSTOMER\_ORDER\_DETAILS ON CUSTOMER.CID = STEADY\_CUSTOMER\_ORDER\_DETAILS.CID

INNER JOIN VEHICLE ON ( CUSTOMER.CID = VEHICLE.cID)

INNER JOIN `ORDER` USING (VIN)

INNER JOIN MAINTENANCE\_DETAILS ON `ORDER`.ORDER\_ID = MAINTENANCE\_DETAILS.ORDER\_ID

INNER JOIN MAINTENANCE\_ITEM ON (MAINTENANCE\_DETAILS.ITEM\_NAME =MAINTENANCE\_ITEM.ITEM\_NAME AND MAINTENANCE\_DETAILS.AUTOMOBILE\_ID = MAINTENANCE\_ITEM.AUTOMOBILE\_ID)

WHERE `ORDER`.ORDER\_DATE BETWEEN DATE\_SUB(CURDATE(),INTERVAL 2 YEAR) AND now()

GROUP BY CUSTOMER.CID, MAINTENANCE\_DETAILS.ORDER\_ID,MAINTENANCE\_ITEM.AUTOMOBILE\_ID,MAINTENANCE\_ITEM.ITEM\_NAME

UNION

SELECT CORPNAME AS CUSTOMERNAME, CUSTOMER.CID, ORDER\_DATE,SUM(ITEMCOST) AS TOTALCOST, SUM(LOYALTY\_POINTS\_SPENT \* 5) AS POINTS

FROM CUSTOMER

INNER JOIN CORPORATION ON CUSTOMER.CID = CORPORATION.CID

LEFT OUTER JOIN STEADY\_CUSTOMER\_ORDER\_DETAILS ON CUSTOMER.CID = STEADY\_CUSTOMER\_ORDER\_DETAILS.CID

INNER JOIN VEHICLE ON ( CUSTOMER.CID = VEHICLE.cID)

INNER JOIN `ORDER` USING (VIN)

INNER JOIN MAINTENANCE\_DETAILS ON `ORDER`.ORDER\_ID = MAINTENANCE\_DETAILS.ORDER\_ID

INNER JOIN MAINTENANCE\_ITEM ON (MAINTENANCE\_DETAILS.ITEM\_NAME =MAINTENANCE\_ITEM.ITEM\_NAME AND MAINTENANCE\_DETAILS.AUTOMOBILE\_ID = MAINTENANCE\_ITEM.AUTOMOBILE\_ID)

WHERE `ORDER`.ORDER\_DATE BETWEEN DATE\_SUB(CURDATE(),INTERVAL 2 YEAR) AND now()

GROUP BY CUSTOMER.CID, MAINTENANCE\_DETAILS.ORDER\_ID,MAINTENANCE\_ITEM.AUTOMOBILE\_ID,MAINTENANCE\_ITEM.ITEM\_NAME) G

NATURAL JOIN CUSTOMER

WHERE CID = G.CID

GROUP BY CUSTOMER.CID

ORDER BY NETCOST DESC LIMIT 3;

-- 4

SELECT EMPLOYEENAME, GROUP\_CONCAT(SKILLNAME2),COUNT(SKILLNAME2) as skillspossess

FROM EMPLOYEE

INNER JOIN MECHANIC ON EMPLOYEE.EMPLOYEEID = EMPLOYEEID2

INNER JOIN SKILLDETAILS ON SKILLDETAILS.EMPLOYEEID3 = MECHANIC.EMPLOYEEID2

GROUP BY EMPLOYEEID HAVING COUNT(SKILLNAME2) >=3;

-- 5

SELECT A.EMPLOYEENAME AS MECHANICA, B.EMPLOYEENAME AS MECHANICB, GROUP\_CONCAT(SKILLNAME2) AS COMMONSKILLS

FROM ( SELECT EMPLOYEENAME, SKILLNAME2 FROM SKILLDETAILS

INNER JOIN EMPLOYEE ON SKILLDETAILS.EMPLOYEEID3 = EMPLOYEE.EMPLOYEEID) A

INNER JOIN

(SELECT EMPLOYEENAME, SKILLNAME2 FROM SKILLDETAILS

INNER JOIN EMPLOYEE ON SKILLDETAILS.EMPLOYEEID3 = EMPLOYEE.EMPLOYEEID) B

USING (SKILLNAME2)

WHERE A.EMPLOYEENAME < B.EMPLOYEENAME

GROUP BY A.EMPLOYEENAME, B.EMPLOYEENAME

HAVING COUNT(SKILLNAME2) >= 3;

-- 6

SELECT MPACKTYPE, GROUP\_CONCAT(DISTINCT MAINTENANCE\_PACK\_DETAILS.ITEM\_NAME) AS ITEMS, SUM(ITEMCOST) AS TOTAL

FROM MAINTENANCE\_PACK\_DETAILS

INNER JOIN MAINTENANCE\_ITEM ON (MAINTENANCE\_ITEM.ITEM\_NAME = MAINTENANCE\_PACK\_DETAILS.ITEM\_NAME

AND MAINTENANCE\_ITEM.AUTOMOBILE\_ID = MAINTENANCE\_PACK\_DETAILS.AUTOMOBILE\_ID)

GROUP BY MPACKTYPE;

-- 7

-- 8

SELECT PFIRSTNAME AS FIRSTNAME, PLASTNAME AS LASTNAME , LOYALTYPOINTS

FROM CUSTOMER

NATURAL JOIN PRIVATEINDIVIDUAL

NATURAL JOIN ACTIVE

NATURAL JOIN STEADYCUSTOMER

UNION

SELECT CORPNAME AS FIRSTNAME, '' AS LASTNAME, LOYALTYPOINTS

FROM CUSTOMER

NATURAL JOIN CORPORATION

NATURAL JOIN ACTIVE

NATURAL JOIN STEADYCUSTOMER

ORDER BY LOYALTYPOINTS DESC;

-- 9

SELECT PFIRSTNAME, PLASTNAME, PREMIERCUSTOMER.CID, YEARTOTAL - (DISPLAY \* 50) AS YEARLYTOTAL, TOTALCOST, TOTALCOST - (YEARTOTAL - (DISPLAY \* 50)) AS TOTALSAVED

FROM (SELECT PFIRSTNAME, PLASTNAME,PREMIERCUSTOMER.CID,

COUNT(DISTINCT REFERREDCUSTOMERINSTANCE.CID) AS DISPLAY, ANNUALFEE \* 12 AS YEARTOTAL, ORDER\_DATE, SUM(ITEMCOST) AS TOTALCOST, ORDER\_ID, CONCAT(MAINTENANCE\_DETAILS.ITEM\_NAME)

FROM CUSTOMER

LEFT OUTER JOIN REFERREDCUSTOMERINSTANCE ON CUSTOMER.CID = REFERREDCUSTOMERINSTANCE.CID

RIGHT OUTER JOIN PRIVATEINDIVIDUAL ON CUSTOMER.CID = PRIVATEINDIVIDUAL.CID

RIGHT OUTER JOIN PREMIERCUSTOMER ON CUSTOMER.CID = PREMIERCUSTOMER.CID

INNER JOIN VEHICLE ON ( CUSTOMER.CID = VEHICLE.cID)

INNER JOIN `ORDER` USING (VIN)

INNER JOIN MAINTENANCE\_DETAILS USING (ORDER\_ID)

INNER JOIN MAINTENANCE\_ITEM ON (MAINTENANCE\_DETAILS.ITEM\_NAME =MAINTENANCE\_ITEM.ITEM\_NAME

AND MAINTENANCE\_DETAILS.AUTOMOBILE\_ID = MAINTENANCE\_ITEM.AUTOMOBILE\_ID)

WHERE ORDER\_DATE BETWEEN DATE\_SUB(CURDATE(),INTERVAL 1 YEAR) AND now()

GROUP BY PREMIERCUSTOMER.CID) G

NATURAL JOIN PREMIERCUSTOMER

WHERE PREMIERCUSTOMER.CID = G.CID

ORDER BY TOTALSAVED DESC;

-- 10

SELECT CUSTOMERNAME,CORPNAME,STEADYCUSTOMER.CID, SUM(TOTALCOST) AS NETSPENDING, SUM(SHOPCOST), SUM(TOTALCOST) - SUM(SHOPCOST) AS PROFIT

FROM (SELECT CONCAT(PFIRSTNAME, PLASTNAME) AS CUSTOMERNAME,CORPNAME,CUSTOMER.CID, ORDER\_DATE, SUM(ITEMCOST) AS TOTALCOST, SUM(BUYPRICE) AS SHOPCOST

FROM CUSTOMER

LEFT JOIN STEADYCUSTOMER ON CUSTOMER.CID = STEADYCUSTOMER.CID

LEFT JOIN PRIVATEINDIVIDUAL ON CUSTOMER.CID = PRIVATEINDIVIDUAL.CID

LEFT JOIN CORPORATION ON CUSTOMER.CID = CORPORATION.CID

INNER JOIN VEHICLE ON ( CUSTOMER.CID = VEHICLE.cID)

INNER JOIN `ORDER` USING (VIN)

INNER JOIN MAINTENANCE\_DETAILS USING (ORDER\_ID)

INNER JOIN MAINTENANCE\_ITEM ON (MAINTENANCE\_DETAILS.ITEM\_NAME =MAINTENANCE\_ITEM.ITEM\_NAME AND MAINTENANCE\_DETAILS.AUTOMOBILE\_ID = MAINTENANCE\_ITEM.AUTOMOBILE\_ID)

WHERE `ORDER`.ORDER\_DATE BETWEEN DATE\_SUB(CURDATE(),INTERVAL 1 YEAR) AND now()

GROUP BY CUSTOMER.CID,ORDER\_ID,MAINTENANCE\_ITEM.AUTOMOBILE\_ID,MAINTENANCE\_ITEM.ITEM\_NAME,MAINTENANCE\_ITEM.BUYPRICE)G

NATURAL JOIN STEADYCUSTOMER

WHERE STEADYCUSTOMER.CID = G.CID

GROUP BY STEADYCUSTOMER.CID

ORDER BY NETSPENDING DESC;

-- 11

SELECT PFIRSTNAME AS FIRSTNAME, PLASTNAME AS LASTNAME, PREMIERCUSTOMER.CID AS ID, YEARTOTAL, YEARTOTAL - (DISPLAY \* 50) AS ACTUALPAYMENT

FROM (SELECT PFIRSTNAME, PLASTNAME,PREMIERCUSTOMER.CID, COUNT(DISTINCT REFERREDCUSTOMERINSTANCE.CID) AS DISPLAY, ANNUALFEE \* 12 AS YEARTOTAL

FROM CUSTOMER

INNER JOIN REFERREDCUSTOMERINSTANCE ON CUSTOMER.CID = REFERREDCUSTOMERINSTANCE.CID

INNER JOIN PRIVATEINDIVIDUAL ON CUSTOMER.CID = PRIVATEINDIVIDUAL.CID

INNER JOIN PREMIERCUSTOMER ON CUSTOMER.CID = PREMIERCUSTOMER.CID

GROUP BY PREMIERCUSTOMER.CID) G

NATURAL JOIN PREMIERCUSTOMER

WHERE PREMIERCUSTOMER.CID = G.CID

UNION

SELECT CORPNAME AS FIRSTNAME, '' AS LASTNAME, PREMIERCUSTOMER.CID AS ID, YEARTOTAL, YEARTOTAL - (DISPLAY \* 50) AS ACTUALPAYMENT

FROM (SELECT CORPNAME,PREMIERCUSTOMER.CID, COUNT(DISTINCT REFERREDCUSTOMERINSTANCE.CID) AS DISPLAY, ANNUALFEE \* 12 AS YEARTOTAL

FROM CUSTOMER

LEFT OUTER JOIN REFERREDCUSTOMERINSTANCE ON CUSTOMER.CID = REFERREDCUSTOMERINSTANCE.CID

INNER JOIN CORPORATION ON CUSTOMER.CID = CORPORATION.CID

INNER JOIN PREMIERCUSTOMER ON CUSTOMER.CID = PREMIERCUSTOMER.CID

GROUP BY PREMIERCUSTOMER.CID) G

NATURAL JOIN PREMIERCUSTOMER

WHERE PREMIERCUSTOMER.CID = G.CID

ORDER BY YEARTOTAL DESC

LIMIT 3;

-- 12

SELECT VMODEL, VMAKE, VYEAR, COUNT(MANUFACTURER.AUTOMOBILE\_ID) AS TIMESVISTED

FROM MANUFACTURER

INNER JOIN VEHICLE ON MANUFACTURER.AUTOMOBILE\_ID = VEHICLE.AUTOMOBILE\_ID

INNER JOIN `ORDER` ON VEHICLE.VIN = `ORDER`.VIN

WHERE ORDER\_DATE BETWEEN DATE\_SUB(CURDATE(),INTERVAL 3 YEAR) AND now()

GROUP BY MANUFACTURER.AUTOMOBILE\_ID

ORDER BY COUNT(MANUFACTURER.AUTOMOBILE\_ID) DESC

LIMIT 5;

-- 13

SELECT EMPLOYEENAME AS MENTOR, GROUP\_CONCAT(DISTINCT MSKILL), COUNT(mentorID) AS TIMESMENTORED

FROM EMPLOYEE

INNER JOIN MECHANIC ON EMPLOYEE.EMPLOYEEID = MECHANIC.EMPLOYEEID2

INNER JOIN MENTORING ON MECHANIC.EMPLOYEEID2 = MENTORING.MENTORID

GROUP BY MENTOR

ORDER BY COUNT(mentoreeID) DESC

LIMIT 1;

-- 14

SELECT SKILLNAME, MECHANICS

FROM(SELECT SKILLNAME, COUNT(EMPLOYEEID2) AS MECHANICS

FROM SKILLS

INNER JOIN SKILLDETAILS ON SKILLS.SKILLNAME = SKILLDETAILS.SKILLNAME2

INNER JOIN MECHANIC ON MECHANIC.EMPLOYEEID2 = SKILLDETAILS.EMPLOYEEID3

GROUP BY SKILLNAME HAVING COUNT(EMPLOYEEID2)

ORDER BY MECHANICS ASC LIMIT 3) G

WHERE SKILLNAME = G.SKILLNAME;

-- 15

SELECT EMPLOYEENAME, MECHANIC.EMPLOYEEID2 AS MECHANICID, TECHNICIAN.EMPLOYEEID AS TECHNICIANID

FROM EMPLOYEE INNER JOIN MECHANIC ON EMPLOYEE.EMPLOYEEID = MECHANIC.EMPLOYEEID2

INNER JOIN TECHNICIAN ON EMPLOYEE.EMPLOYEEID = TECHNICIAN.EMPLOYEEID;

-- 16a

SELECT EMPLOYEENAME, SKILLNAME2, timestampdiff(year, DATELEARNED, curdate()) AS 'EXP TIME'

FROM EMPLOYEE AS EM

INNER JOIN MECHANIC AS M ON EM.EMPLOYEEID = M.EMPLOYEEID2

INNER JOIN SKILLDETAILS AS SD ON M.EMPLOYEEID2 = SD.EMPLOYEEID3;

-- 16b

SELECT VMAKE, VMODEL, VYEAR,VTYPE, COUNT(MPACKTYPE) AS SERVICEPACK,

COUNT(ITEM\_NAME) AS MAINTENANCEITEM, COUNT(CID) AS CUSTOMER

FROM MANUFACTURER M

LEFT JOIN MAINTENANCE\_PACK MP ON(M.AUTOMOBILE\_ID = MP.AUTOMOBILE\_ID)

LEFT JOIN MAINTENANCE\_ITEM MI ON(M.AUTOMOBILE\_ID = MI.AUTOMOBILE\_ID)

LEFT JOIN VEHICLE V ON M.AUTOMOBILE\_ID =V.AUTOMOBILE\_ID

WHERE VTYPE = 'Electric' ;

-- 16c

SELECT EMPLOYEENAME, COUNT(DISTINCT ORD.EMPLOYEE\_ID) AS 'NUMBER OF ITEMS WORKING ON', ORD.ORDER\_ID,

ORD.ORDER\_DATE, ITEM\_NAME

FROM `ORDER` AS ORD

INNER JOIN EMPLOYEE ON EMPLOYEE.EMPLOYEEID

INNER JOIN MAINTENANCE\_DETAILS ON ORD.ORDER\_ID = MAINTENANCE\_DETAILS.ORDER\_ID

GROUP BY ORDER\_ID;