VIEWS:

//VIEW 1

CREATE VIEW Customer\_v AS

SELECT lname AS last\_name, fname AS first\_name, 'premier' AS "customer type", (YEAR(CURDATE()) - YEAR(dateJoined)) AS "years as customer"

FROM privates

INNER JOIN customers USING (cust\_id)

INNER JOIN nonprospectives USING (cust\_id)

INNER JOIN premiers USING (cust\_id)

UNION

SELECT lname AS last\_name, fname AS first\_name, 'steady' AS "customer type", (YEAR(CURDATE()) - YEAR(dateJoined)) AS "years as customer"

FROM privates

INNER JOIN customers USING (cust\_id)

INNER JOIN nonprospectives USING (cust\_id)

INNER JOIN steadys USING (cust\_id)

UNION

SELECT lname AS last\_name, fname AS first\_name, 'prospect' AS "customer type", (YEAR(CURDATE()) - YEAR(dateJoined)) AS "years as customer"

FROM privates

INNER JOIN customers USING (cust\_id)

INNER JOIN prospectives USING (cust\_id)

UNION

SELECT corp\_name AS last\_name, '' AS first\_name, 'premier' AS "customer type", (YEAR(CURDATE()) - YEAR(dateJoined)) AS "years as customer"

FROM corporations

INNER JOIN customers USING (cust\_id)

INNER JOIN nonprospectives USING (cust\_id)

INNER JOIN premiers USING (cust\_id)

UNION

SELECT corp\_name AS last\_name, '' AS first\_name, 'steady' AS "customer type", (YEAR(CURDATE()) - YEAR(dateJoined)) AS "years as customer"

FROM corporations

INNER JOIN customers USING (cust\_id)

INNER JOIN nonprospectives USING (cust\_id)

INNER JOIN steadys USING (cust\_id)

UNION

SELECT corp\_name AS last\_name, '' AS first\_name, 'prospect' AS "customer type", (YEAR(CURDATE()) - YEAR(dateJoined)) AS "years as customer"

FROM corporations

INNER JOIN customers USING (cust\_id)

INNER JOIN prospectives USING (cust\_id)

ORDER BY last\_name, first\_name;

//VIEW 2

CREATE VIEW Customer\_addresses\_v AS

SELECT 'individual' AS "individual / corp", lname AS last\_name, fname AS first\_name, 'private' as "address type", address, zipcode, city, state

FROM privates

INNER JOIN zips USING (zipcode)

UNION

SELECT 'corporation' AS "individual / corp", corp\_name AS last\_name, '' AS first\_name, type as "address type", address, zipcode, city, state

FROM corporations

INNER JOIN addresses USING (cust\_id)

INNER JOIN zips USING (zipcode)

ORDER BY last\_name, first\_name;

//VIEW 3

CREATE VIEW Mechanic\_mentor\_v AS

SELECT DISTINCT mentor.employ\_lname AS "mentor last name", mentor.employ\_fname AS "mentor first name", mentee.employ\_lname AS "mentee last name", mentee.employ\_fname AS "mentee first name"

FROM mentorRelationships mr

INNER JOIN mechanics m1 ON (mr.mentor\_id = m1.employ\_id)

INNER JOIN employees mentor ON (m1.employ\_id = mentor.employ\_id)

INNER JOIN mechanics m2 ON (mr.mentee\_id = m2.employ\_id)

INNER JOIN employees mentee ON (m2.employ\_id = mentee.employ\_id)

ORDER BY mentor.employ\_lname, mentor.employ\_fname, mentee.employ\_lname, mentee.employ\_fname;

//VIEW 4

CREATE VIEW Premier\_Saving\_v AS

(SELECT np.cust\_id, v.VIN, SUM(parts.price\*mp.quantity+mi.laborMarkUp-sli.discount-sli.loyaltyPointUsed\*2) AS "expected\_price", ((v.estYrMileage/5000) + vmm.baseRate/4)\*12 AS "installments\_paid",

SUM(parts.price\*mp.quantity+mi.laborMarkUp-sli.discount-sli.loyaltyPointUsed\*2) - ((v.estYrMileage/5000) + vmm.baseRate/4)\*12 as "saved"

from customers c

inner join nonprospectives np on (c.cust\_id = np.cust\_id)

inner join premiers p on (np.cust\_id = p.cust\_id)

inner join MonthlyInstallments monthly on (monthly.cust\_id = p.cust\_id)

inner join vehicles v on (c.cust\_id = v.cust\_id)

inner join vehicleMakeModels vmm on (v.vmm\_id = vmm.vmm\_id)

inner join visitOrders vo on (v.VIN = vo.VIN)

inner join servicelineitems sli on (sli.VIN = vo.VIN AND sli.logTime = vo.logTime)

inner join serviceItems si on (sli.servName = si.name)

inner join maintenance\_items mi on (si.name = mi.name)

inner join maintenance\_parts mp on (mp.name = mi.name)

inner join parts on (parts.partName = mp.partName)

WHERE vo.logTime >= DATE\_SUB(CURDATE(), INTERVAL 1 YEAR)

GROUP BY np.cust\_id, v.VIN)

UNION

SELECT np1.cust\_id, v1.VIN, 0 AS "expected\_price", ((v1.estYrMileage/5000) + vmm1.baseRate/4)\*12 AS "installments\_paid",

0-((v1.estYrMileage/5000) + vmm1.baseRate/4)\*12 as "saved"

from customers c1

inner join nonprospectives np1 on (c1.cust\_id = np1.cust\_id)

inner join premiers p1 on (np1.cust\_id = p1.cust\_id)

inner join MonthlyInstallments monthly1 on (monthly1.cust\_id = p1.cust\_id)

inner join vehicles v1 on (c1.cust\_id = v1.cust\_id)

inner join vehicleMakeModels vmm1 on (v1.vmm\_id = vmm1.vmm\_id)

WHERE c1.dateJoined <= DATE\_SUB(CURDATE(), INTERVAL 1 YEAR) AND c1.cust\_id NOT IN

(SELECT c2.cust\_id from customers c2

inner join nonprospectives np2 on (c2.cust\_id = np2.cust\_id)

inner join premiers p2 on (np2.cust\_id = p2.cust\_id)

inner join MonthlyInstallments monthly2 on (monthly2.cust\_id = p2.cust\_id)

inner join vehicles v2 on (c2.cust\_id = v2.cust\_id)

inner join vehicleMakeModels vmm2 on (v2.vmm\_id = vmm2.vmm\_id)

inner join visitOrders vo2 on (v2.VIN = vo2.VIN)

WHERE vo2.logTime >= DATE\_SUB(CURDATE(), INTERVAL 1 YEAR))

UNION

SELECT np3.cust\_id, v3.VIN, 0 AS "expected\_price", ((v3.estYrMileage/5000) + vmm3.baseRate/4)\*TIMESTAMPDIFF(DAY,CURDATE(),c3.dateJoined)/30.42 AS "installments\_paid",

0-((v3.estYrMileage/5000) + vmm3.baseRate/4)\*TIMESTAMPDIFF(DAY,CURDATE(),c3.dateJoined)/30.42 as "saved"

from customers c3

inner join nonprospectives np3 on (c3.cust\_id = np3.cust\_id)

inner join premiers p3 on (np3.cust\_id = p3.cust\_id)

inner join MonthlyInstallments monthly3 on (monthly3.cust\_id = p3.cust\_id)

inner join vehicles v3 on (c3.cust\_id = v3.cust\_id)

inner join vehicleMakeModels vmm3 on (v3.vmm\_id = vmm3.vmm\_id)

WHERE c3.dateJoined > DATE\_SUB(CURDATE(), INTERVAL 1 YEAR) AND c3.cust\_id NOT IN

(SELECT c4.cust\_id from customers c4

inner join nonprospectives np4 on (c4.cust\_id = np4.cust\_id)

inner join premiers p4 on (np4.cust\_id = p4.cust\_id)

inner join MonthlyInstallments monthly4 on (monthly4.cust\_id = p4.cust\_id)

inner join vehicles v4 on (c4.cust\_id = v4.cust\_id)

inner join vehicleMakeModels vmm4 on (v4.vmm\_id = vmm4.vmm\_id)

inner join visitOrders vo4 on (v4.VIN = vo4.VIN)

WHERE vo4.logTime >= DATE\_SUB(CURDATE(), INTERVAL 1 YEAR));

//VIEW 5

CREATE VIEW Prospective\_resurrection\_v AS

SELECT lname AS last\_name, fname AS first\_name, (SELECT COUNT(\*) FROM contacts con WHERE (con.cust\_id = priv.cust\_id)) AS "number of contacts", (SELECT MAX(dateContacted) FROM contacts cont WHERE (cont.cust\_id = priv.cust\_id)) AS "most recent contact"

FROM contacts c

INNER JOIN prospectives pros ON (c.cust\_id = pros.cust\_id)

INNER JOIN customers cust ON (pros.cust\_id = cust.cust\_id)

INNER JOIN privates priv ON (cust.cust\_id = priv.cust\_id)

WHERE (SELECT COUNT(\*) FROM contacts con WHERE (con.cust\_id = priv.cust\_id)) >= 3 AND

DATE\_SUB(CURDATE(), INTERVAL 1 YEAR) > (SELECT MAX(dateContacted) FROM contacts cont WHERE (cont.cust\_id = priv.cust\_id))

UNION

SELECT corp\_name AS last\_name, '' AS first\_name, (SELECT COUNT(\*) FROM contacts con WHERE (con.cust\_id = corp.cust\_id)) AS "number of contacts", (SELECT MAX(dateContacted) FROM contacts cont WHERE (cont.cust\_id = corp.cust\_id)) AS "most recent contact"

FROM contacts c

INNER JOIN prospectives pros ON (c.cust\_id = pros.cust\_id)

INNER JOIN customers cust ON (pros.cust\_id = cust.cust\_id)

INNER JOIN corporations corp ON (cust.cust\_id = corp.cust\_id)

WHERE (SELECT COUNT(\*) FROM contacts con WHERE (con.cust\_id = corp.cust\_id)) >= 3 AND

DATE\_SUB(CURDATE(), INTERVAL 1 YEAR) > (SELECT MAX(dateContacted) FROM contacts cont WHERE (cont.cust\_id = corp.cust\_id))

ORDER BY last\_name, first\_name;

SELECT \* FROM Customer\_v;

SELECT \* FROM Customer\_addresses\_v;

SELECT \* FROM Mechanic\_mentor\_v;

SELECT \* FROM Premier\_Saving\_v;

SELECT \* FROM Prospective\_resurrection\_v;

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INSERT CODE:

/\*use DEFAULT for attributes with AUTO\_INCREMENT\*/

/\*INSERT TO TABLE\_NAME, table\_name is case sensitive\*/

INSERT INTO customers VALUES(DEFAULT,'test@yahoo.com','714','2014-05-14');

INSERT INTO customers VALUES(DEFAULT,'cup@yahoo.com','713-423-2134','2014-08-22');

INSERT INTO customers VALUES(DEFAULT,'book@yahoo.com','123-1234-1234','2014-01-03');

INSERT INTO customers VALUES(DEFAULT,'laptop@yahoo.com','714-213-1234','2012-05-14');

INSERT INTO customers VALUES(DEFAULT,'shirt@yahoo.com','713-424-1231','2011-08-22');

INSERT INTO customers VALUES([DEFAULT,'pants@yahoo.com](about:blank)','123-1234-3214','2000-01-03');

INSERT INTO customers VALUES(DEFAULT,'boba@gmail.com','711-444-1991','2009-08-22');

INSERT INTO zips VALUES(92683,'westminster','california');

INSERT INTO zips VALUES(98010,'long beach','california');

INSERT INTO privates VALUES(1,'le','tommy','9830 circleton',92683);

INSERT INTO privates VALUES(2,'wang','daniel','9232 baltimore',98010);

INSERT INTO privates VALUES(3,'nguyen','nathan','1203 whosevile',98010);

INSERT INTO corporations VALUES(4,'Hawthorn Wipes');

INSERT INTO corporations VALUES(5,'Mike n Nike');

INSERT INTO corporations VALUES(6,'Monster Inc');

INSERT INTO corporations VALUES(7,'Klondike Bar');

INSERT INTO prospectives VALUES(1,'alive');

INSERT INTO prospectives VALUES(6,'dead');

INSERT INTO prospectives VALUES(7,'dead');

INSERT INTO nonprospectives VALUES(2,6);

INSERT INTO nonprospectives VALUES(3,12);

INSERT INTO nonprospectives VALUES(4,88);

INSERT INTO nonprospectives VALUES(5,2);

INSERT INTO steadys VALUES(2,123);

INSERT INTO steadys VALUES(4,87);

INSERT INTO premiers VALUES(3,'yes');

INSERT INTO premiers VALUES(5,'no');

INSERT INTO contacts VALUES (1, '2014-06-20','phone');

INSERT INTO contacts VALUES (1, '2012-07-22','email');

INSERT INTO contacts VALUES (6, '2016-08-16','phone');

INSERT INTO contacts VALUES (6, '2016-05-24','email');

INSERT INTO contacts VALUES (6, '2016-06-02','phone');

INSERT INTO contacts VALUES (7, '2011-05-04','email');

INSERT INTO contacts VALUES (7, '2012-02-29','email');

INSERT INTO contacts VALUES (7, '2015-10-25','phone');

INSERT INTO addresses VALUES(4,'9320 NoiDea Ct',92683,'mailing');

INSERT INTO addresses VALUES(4,'2481 Hawkeye Cir',98010,'billing');

INSERT INTO addresses VALUES(5,'1952 Stanton St',98010,'vehiclePickUp');

INSERT INTO addresses VALUES(6,'1935 Electric Ave',98010,'vehicleDelivery');

INSERT INTO addresses VALUES(6,'2120 Coral Ave',92683,'vehiclePickUp');

INSERT INTO employees VALUES(DEFAULT,'Hank','Hill','713-424-1351',23889);

INSERT INTO employees VALUES(DEFAULT,'Dale','Gribble','183-2492-1341',13429);

INSERT INTO employees VALUES(DEFAULT,'Bobby','Hill','713-435-2421',0);

INSERT INTO employees VALUES(DEFAULT,'John','Redcorn','181-3413-1351',23429);

INSERT INTO employees VALUES(DEFAULT,'Timmy','Le','712-435-342',29481);

INSERT INTO employees VALUES(DEFAULT,'Tim','Redcorn','184-3415-1451',23044);

INSERT INTO serviceTechnicians VALUES(1);

INSERT INTO serviceTechnicians VALUES(2);

INSERT INTO serviceTechnicians VALUES(3);

INSERT INTO mechanics VALUES(3);

INSERT INTO mechanics VALUES(4);

INSERT INTO mechanics VALUES(5);

INSERT INTO mechanics VALUES(6);

INSERT INTO certifications VALUES('Certificate to change a Headlight');

INSERT INTO certifications VALUES('Certificate to install windshield wipers');

INSERT INTO certifications VALUES('Certificate to turn ignition key');

INSERT INTO certifications VALUES('Certificate to replace bulbs');

INSERT INTO certifications VALUES('Certificate to build engines');

INSERT INTO certifications VALUES('Certificate to install tech');

INSERT INTO certifications VALUES('Certificate to utilize wrench');

INSERT INTO certificateGranted VALUES('Certificate to change a Headlight',1998,3);

INSERT INTO certificateGranted VALUES('Certificate to turn ignition key',1900,3);

INSERT INTO certificateGranted VALUES('Certificate to install windshield wipers',2002,4);

INSERT INTO certificateGranted VALUES('Certificate to replace bulbs',1992,6);

INSERT INTO certificateGranted VALUES('Certificate to build engines',2000,6);

INSERT INTO certificateGranted VALUES('Certificate to install tech',2010,6);

INSERT INTO certificateGranted VALUES('Certificate to utilize wrench',1991,6);

INSERT INTO mentorRelationships VALUES(3,5,'Certificate to turn ignition key','2016-11-4','2016-12-5');

INSERT INTO mentorRelationships VALUES(4,6,'Certificate to install windshield wipers','2015-2-4','2015-5-8');

INSERT INTO mentorRelationships VALUES (6,3,'Certificate to replace bulbs',NULL,'2012-1-2');

INSERT INTO mentorRelationships VALUES (6,5,'Certificate to build engines',NULL,'2015-10-25');

INSERT INTO mentorRelationships VALUES (6,4,'Certificate to build engines',NULL,'2013-7-11');

INSERT INTO mentorRelationships VALUES (6,3,'Certificate to utilize wrench',NULL,'2011-3-15');

Insert into suppliers values ('A&Z Auto Parts');

Insert into suppliers values ('PepBoys');

Insert into suppliers values ('Auto Zones');

Insert into suppliers values ('O Reilly Auto Parts');

Insert into parts values ('A&Z Auto Parts','Back-up camera','1200');

Insert into parts values ('PepBoys', 'Fog Light','2000');

Insert into parts values ('Auto Zones', 'Air Fuel sensors', '500');

INSERT INTO parts VALUES ('Auto Zones', 'O-Ring', 20);

INSERT INTO parts VALUES ('Auto Zones', 'Stock Engine', 3500);

INSERT INTO parts VALUES ('Auto Zones', 'Spark Plug Socket', 30);

insert into serviceItems values('Engine Rebuild');

insert into serviceItems values('Ring Replacement');

insert into serviceItems values('Headlight Change');

insert into serviceItems values('Replace AirFuel');

insert into serviceItems values('Install Camera');

insert into serviceItems values('Package 1');

insert into serviceItems values('Package 2');

insert into serviceItems values('Interior Sweep');

insert into serviceItems values('Smog Check');

insert into serviceItems values('Sunroof Fix');

insert into maintenance\_items values('Engine Rebuild',6,2200);

insert into maintenance\_items values('Ring Replacement',2,400);

insert into maintenance\_items values('Headlight Change',1,200);

insert into maintenance\_items values('Replace AirFuel',3,1200);

insert into maintenance\_items values('Install Camera',1,600);

insert into maintenance\_parts values('Auto Zones', 'Air Fuel sensors','Replace AirFuel',1);

insert into maintenance\_parts values('PepBoys', 'Fog Light','Headlight Change',2);

insert into maintenance\_parts values('A&Z Auto Parts','Back-up camera','Install Camera',1);

insert into maintenance\_parts values('Auto Zones','O-Ring','Ring Replacement',4);

insert into maintenance\_parts values('Auto Zones','Stock Engine','Engine Rebuild',1);

insert into maintenance\_parts values('Auto Zones','Spark Plug Socket','Engine Rebuild',3);

insert into maintenance\_items values('Interior Sweep',2,200);

insert into maintenance\_items values('Smog Check',1,100);

insert into maintenance\_items values('Sunroof Fix',2,400);

INSERT INTO skills VALUES('Engine Building');

INSERT INTO skills VALUES('Bulb Replacement');

INSERT INTO skills VALUES('Tech Installment');

INSERT INTO skills VALUES('Wrench Guy');

INSERT INTO skills VALUES('Tire Changer');

INSERT INTO skills VALUES('Window Washer');

INSERT INTO employee\_skill VALUES('Engine Building',6);

INSERT INTO employee\_skill VALUES('Bulb Replacement',6);

INSERT INTO employee\_skill VALUES('Tech Installment',6);

INSERT INTO employee\_skill VALUES('Tech Installment',4);

INSERT INTO employee\_skill VALUES('Wrench Guy',6);

INSERT INTO employee\_skill VALUES('Tire Changer',5);

INSERT INTO employee\_skill VALUES('Window Washer',3);

INSERT INTO employee\_skill VALUES('Bulb Replacement',4);

INSERT INTO employee\_skill VALUES('Wrench Guy',4);

INSERT INTO itemSkills VALUES('Engine Building','Engine Rebuild');

INSERT INTO itemSkills VALUES('Bulb Replacement','Headlight Change');

INSERT INTO itemSkills VALUES('Tech Installment','Install Camera');

INSERT INTO itemSkills VALUES('Wrench Guy','Replace AirFuel');

Insert into referrals values (DEFAULT,'2','1','2014-06-20','FreeOilChange');

Insert into referrals values (DEFAULT,'3','6','2014-08-20','$50Off');

Insert into referrals values (DEFAULT,'4','7','2015-06-20','FreeOilChange');

Insert into vehicleMakeModels values (DEFAULT, 'Toyota','Camry',170);

Insert into vehicleMakeModels values (DEFAULT, 'Toyota','Corolla',122);

Insert into vehicleMakeModels values (DEFAULT, 'Toyota','Highlander',195);

Insert into vehicleMakeModels values (DEFAULT, 'Honda','CRV',250);

Insert into vehicleMakeModels values (DEFAULT, 'Honda','Civic',200);

Insert into vehicles values ('1','1','white','1HGCM82633A004352','50000');

Insert into vehicles values ('2','1','silver','2G4WB52KXX1569089','35000');

Insert into vehicles values ('3','2','dark blue','WA1YD64B74N087579','30000');

Insert into vehicles values ('4','3','white','1GDFG15R111279890','10000');

Insert into vehicles values ('5','4','black','1GEHG15R111279908','20000');

Insert into vehicles values ('6','5','red','2FWJA3CG35AV04887','65000');

Insert into vehicles values ('7','2','white','1FVXA7CG6CLB77370','9000');

INSERT INTO davesOrders VALUES('2015-11-02 12:12:43');

INSERT INTO davesOrders VALUES('2015-11-02 13:12:43');

INSERT INTO davesOrders VALUES('2016-11-23 09:34:21');

INSERT INTO orderlines VALUES('2016-11-23 09:34:21','PepBoys', 'Fog Light',2);

INSERT INTO orderlines VALUES('2015-11-02 12:12:43','A&Z Auto Parts','Back-up camera',2);

INSERT INTO orderlines VALUES('2015-11-02 13:12:43','Auto Zones', 'Air Fuel sensors',4);

Insert into packages values ('Package 1');

Insert into packages values ('Package 2');

Insert into packagecomps values ('Engine Rebuild','Package 1',1);

Insert into packagecomps values ('Install Camera','Package 2',1);

INSERT INTO packagecomps VALUES ('Headlight Change','Package 2',1);

Insert into packagecomps values ('Ring Replacement','Package 1',1);

Insert into packagecomps values ('Replace Airfuel','Package 1',1);

INSERT INTO packagecomps values('Interior Sweep','Package 1',1);

INSERT INTO packagecomps values('Headlight Change','Package 1',2);

Insert into maintenanceIntervals values ('1','50000');

Insert into maintenanceIntervals values ('2','50000');

Insert into maintenanceIntervals values ('3','50000');

Insert into maintenanceIntervals values ('4','50000');

Insert into maintenanceIntervals values ('5','50000');

Insert into visitOrders values ('1','2016-06-23 10:04:21','1FVXA7CG6CLB77370','10000');

Insert into visitOrders values ('1','2016-09-23 11:15:21','WA1YD64B74N087579','29500');

Insert into visitOrders values ('2','2016-02-20 12:04:21','1GDFG15R111279890','55000');

Insert into visitOrders values ('2','2016-07-25 09:30:21','2G4WB52KXX1569089','50000');

Insert into visitOrders values ('3','2014-07-27 09:33:21','1GEHG15R111279908','67830');

Insert into intervalServices values ('1','50000','Ring Replacement');

Insert into intervalServices values ('2','50000','Replace AirFuel');

Insert into intervalServices values ('5','50000','Headlight Change');

INSERT INTO MonthlyInstallments VALUES(DEFAULT,1,50000,'2G4WB52KXX1569089',3,'Feburary',2013);

INSERT INTO MonthlyInstallments VALUES(DEFAULT,2,50000,'1FVXA7CG6CLB77370',5,'May',2005);

Insert into servicelineitems values ('3','2016-06-23 10:04:21.000','1FVXA7CG6CLB77370','Headlight Change','0','50.00');

Insert into servicelineitems values ('4','2016-07-25 09:30:21.000','2G4WB52KXX1569089','Ring Replacement','0','0');

Insert into servicelineitems values ('5','2016-02-20 12:04:21.000','1GDFG15R111279890','Engine Rebuild','10','0');

Insert into servicelineitems values ('6','2016-09-23 11:15:21.000','WA1YD64B74N087579','Replace AirFuel','0','30.00');

Insert into servicelineitems values ('3','2014-07-27 09:33:21','1GEHG15R111279908','Headlight Change','0','50.00');