**Queries**

The list below comprises the queries that you should implement as part of the

submission (prior to demo). You will be presenting the OUTPUT of these queries during

the DEMO.

1. Which service center has the most number of customers?

SELECT se.centerId

FROM ServiceEvents se

GROUP BY se.centerId

ORDER BY COUNT(\*) DESC

FETCH NEXT 1 ROWS ONLY;

1. What is the average price of an Evaporator Repair for Hondas across all service

centers?

SELECT AVG(p.price)

FROM services s, CarModels m, ServiceCenters sc, Prices p

WHERE p.serviceId = s.serviceId

AND p.model = m.model

AND p.centerId = sc.centerId

AND s.name = 'Evaporator Repair’

AND m.model = 'Honda'

1. Which customer(s) have unpaid invoices in Service Center 30003

SELECT cv.centerId, u.userId, u.firstName, u.lastName, e.isPaid

FROM Users u,CustomerVehicles cv, Customers c, ServiceEvents e, EventOnServices eos, Services s, Prices p

WHERE cv.centerId=30003

AND u.userId=cv.customerId

AND u.serviceCenterId = cv.centerId

AND cv.customerId = c.userId

AND cv.centerId = c.serviceCenterId

AND cv.vin = e.vin

AND e.serviceEventId = eos.eventid

AND eos.serviceId = s.serviceId

AND s.serviceId = p.serviceid

AND cv.centerId = p.centerId

AND cv.model = p.model

AND e.isPaid = 0

1. List all services that are listed as both maintenance and repair services globally.

5. What is the difference between the cost of doing a belt replacement + schedule A

on a Toyota at center 30001 vs 30002?

SELECT (SELECT p.price

FROM services s, CarModels m, ServiceCenters sc, Prices p

WHERE p.serviceId = s.serviceId

AND p.model = m.model

AND p.centerId = sc.centerId

AND s.name = 'Belt Replacement’

AND m.model = ‘Toyota'

AND p.centerId = 30001)

- (SELECT p2.price

FROM services s2, CarModels m2, ServiceCenters sc2, Prices p2

WHERE p2.serviceId = s2.serviceId

AND p2.model = m2.model

AND p2.centerId = sc2.centerId

AND s2.name = 'Belt Replacement’

AND m2.model = 'Toyota'

AND p2.centerId = 30002

)

FROM dual;

6. What is the next eligible maintenance schedule service for the car with VIN

34KLE19D