**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 serviceCenterId

FROM Customers

GROUP BY serviceCenterId

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 Prices p, Services s

WHERE p.serviceId = s.serviceId

AND p.model = ‘Honda’

AND s.name = 'Evaporator Repair’

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

SELECT DISTINCT cv.customerId

FROM CustomerVehicles cv, ServiceEvents e

WHERE e.centerId=30003

AND e.vin = cv.vin

AND e.isPaid = 0

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

SELECT DISTINCT s.name

FROM Services s

INNER JOIN RepairServices rs on s.serviceId = rs.serviceId

INNER JOIN MaintHasServices m on m.serviceName = s.name;

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

on a Toyota at center 30001 vs 30002?

SELECT \* FROM ((SELECT SUM(p.price)

FROM Services s

INNER JOIN Prices p on s.serviceId = p.serviceId

WHERE (s.name = ‘Belt Replacement’ OR s.name = ‘A’)

AND p.model = ‘Toyota’

AND p.centerId = 30002) –

(SELECT SUM(p.price)

FROM Services s

INNER JOIN Prices p on s.serviceId = p.serviceId

WHERE (s.name = ‘Belt Replacement’ OR s.name = ‘A’)

AND p.model = ‘Toyota’

AND p.centerId = 30001));

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

34KLE19D

SELECT CASE lastMClass

WHEN ‘A’ THEN ‘B’

WHEN ‘B’ THEN ‘C’

ELSE ‘A’ nextMClass

FROM CustomerVehicles cv

WHERE cv.vin = ‘34KLE19D’;