IT21072260

D.S.S. DISSANAYAKE

**Part 1**

**1)**

a.

SELECT H.distance, C.CustomerID

FROM Customer C, Hire H

WHERE C.CustomerID = H.CustomerID

Group By C.CustomerID,H.distance

HAVING COUNT(distance)>'20km'

b.

this query will display the customer Id and the distance who’s visiting more than 20 km

The people who ride more than 20 km will be marked and will get discount prices for their next rentals, because of that this is important

c.

c.

The owner of the car rental company and the working staff of the company will be interested, because by riding more kilometers would gain profit to their company.

**2)**

a).

SELECT h.distance, h.Rate, c.CustomerID

FROM Customer c, Hire h

WHERE c.CustomerID = h.CustomerID AND h.distance <

(SELECT CustomerID

FROM Hire

WHERE distance ='20km')

b)

this query will display the distance, rate and the customer id which have been ride less than 20km

c).

both company owner and the company staff

**Part 2**

**2).**

a).

CREATE PROCEDURE getDatee(@VechicleID varchar(8), @max int output, @min int output)

AS

BEGIN

SELECT @max=MAX(distance), @min=MIN(distance)

FROM Hire

WHERE VehicleID= @VechicleID

END

DECLARE @max int, @min int

EXEC getDatee 'V726152', @max OUTPUT, @min OUTPUT

PRINT @max

PRINT @min

b).

this query will display the minimum and the maximum kilometers that the vehicle has been gone when the vehicle Id was inserted

c).

Both company owner and the staff will be interested because after observing the results they have to take the vehicle to the service center if the vehicle has exceeds the due kilometers

**3)**

a)

CREATE TRIGGER limitBooking

ON Hire

FOR INSTEAD INSERT

AS

BEGIN

DECLARE @bookingId VARCHAR(5)

DECLARE @TotalBooking INT

SELECT @BookingId = BookingId From inserted

SELECT @TotalBooking = COUNT(@BookingId) From Hire

IF @TotalBooking > 10

BEGIN

PRINT 'Cannot Insert Hire'

Print 'Hire limit Exceeded'

PRINT 'Limit is 10'

END

END

b).

From this query the number of hires that can be booked is limited to 10

c). since there are only 10 cars available at the company the number of hires has been limited to 10. If they got more than 10 hires they will not be able to supply the service, so from that they might lose the customers. Because of that this trigger is very important