

# COMP283 Assignment One - Scenario Five

## Mersey Car Hire

You have been tasked with specifying a database system for Mersey Car Hire - a small, privately owned car hire company, based in Liverpool. It has a fleet of thirty cars, which it hires to individuals and businesses around Merseyside. Cars come in three classes, A, B and C. Cars from class A cost £50 per day to hire. Cars from class B cost £60, and cars from class C cost £75. (There are 5 class C, 10 class B, and 15 class A cars in the fleet). Business hours are 8:00am - 6:00pm. At any time approximately 70% of the car fleet are on hire. New hires happen at an average rate of two per day. Cars may occasionally be unavailable due to being repaired. You should record each episode of a car being repaired, including the nature of the fault and the cost of the repair.

You have started working for Mersey Care Hire and have been tasked with developing a database system to maintain information regarding their car fleet. Your database should be able to provide the following info:

- List the cars currently on hire.

- Report the number of times each car has been hired (ordered by the class of the car).

- Report the top 5 cars with the most faults.

- Report the weekly income from car hire.

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