

**ISTANBUL AYDIN UNIVERSITY**

**SOFTWARE ENGINEERING**

**2018-2019 Spring Semester**

**Lecture Name:** DATABASE SYSTEMS-II

**Lecture Code:** SEN232

**Homework**

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**Solution**

In a database if we don’t have enough number of tables, there will be a “data chaos”.Assume that all informations about your application in a table. You have a Rent a Car project. There must be at least Customers table, Rentals table and All Cars table. Rentals table will be hold your rents informations. RentalID , CustomerID, CustomerName, CarID, RentalDate, ReturnDate etc. Cars table will be hold your cars informations. CarID CarBrand, CarEngine, Availability etc. If we just have all of these datas in one table, there would be data pollution and mistakes.

Assume that we are working on that one table project. For example we have a new rental. We must fill up all informations about the cars again and again. After a time there will be a data conflict in car information section and we can’t enter new rents.

However if we separate these tables like a mentioned before, we can prevent all of these conflicts and errors. We can reach car’s informations in Rentals table with CarID connection between Cars table. So we don’t need to enter all datas again and again. With the right connection we don’t see any errors with this way.

Example Database for Rent a Car system.

