Samuel Bloxham, Zack Hawkins, Sebastian Michalak, Josie Wood

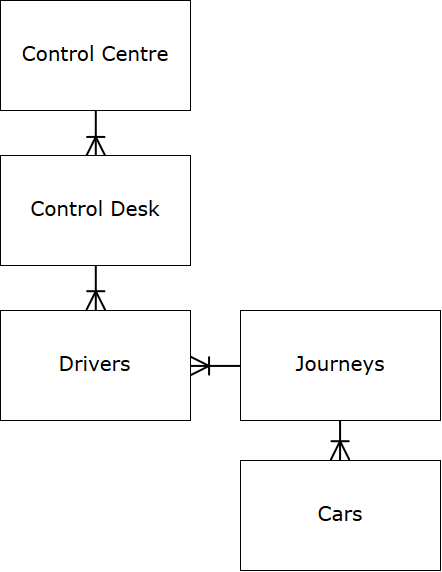
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ISAD: Group Report

# Modelling

Modelling  Initial entity relationship diagram  Results of normalisation  Final entity relationship diagram

Initial ERD



Assumptions:

* Journeys are made by cars, not drivers

Normalisation

|  |  |  |  |
| --- | --- | --- | --- |
| **UNF** | **1NF** | **2NF** | **3NF** |
| **Control Centre ID** | **Vehicle Reg** | **Vehicle Reg** | **Vehicle Reg** |
| Control Desk ID | Control Desk ID | Control Centre ID | \*Control Desk ID |
| Vehicle Reg | Control Centre ID | Control Desk ID | \*Car Make |
| Car Make | Car Make | Car Make |  |
| Licensed to carry | Licensed to Carry | Licensed Passengers | Control Desk ID |
| (Driver ID |  |  | Control Centre ID |
| Driver First Name | **Vehicle Reg** | **Vehicle Reg** |  |
| Driver Last Name | Driver ID | Driver ID | Car Make |
| Days | Driver First Name | Days Working | Licensed Passengers |
| Shifts) | Driver Last Name | Shift (AM/PM) |  |
| (Call ID | Days working |  | **Vehicle reg** |
| Customer ID | Shift (AM/PM) | Driver ID | Driver ID |
| Date-Time |  | First Name | Days Working |
| Pick up Address | **Vehicle Reg** | Last Name | Shift (AM/PM) |
| Pick up Postcode | Call ID |  |  |
| Drop off Address | Customer ID | **Vehicle Reg** | Driver ID |
| Drop off Postcode | Date Time | Call ID | First Name |
| Note | Pick up Address | Pick up Address | Last Name |
| Card #) | Pick up Postcode | Pick up Postcode |  |
|  | Drop off Address | Drop off Address | **Vehicle Reg** |
|  | Drop off Postcode | Drop off Postcode | Call ID |
|  | Note | Driver ID | \*Pick up Address |
|  | Card # |  | \*Drop off Address |
|  |  | Call ID | \*Driver ID |
|  |  | Note |  |
|  |  | Card # | Pick up Address |
|  |  | Customer ID | Pick up Postcode |
|  |  |  |  |
|  |  |  | Drop off Address |
|  |  |  | Drop off Postcode |
|  |  |  |  |
|  |  |  | Call ID |
|  |  |  | Note |
|  |  |  | Card # |
|  |  |  | Customer ID |

[final erd done in mySQL]

# Database development

Database Development  Queries employed to produce your database  Queries employed to retrieve the information listed in Section 1.5.

# Evaluation/ Critical review

Evaluation / Critical Review  Problems encountered and any deviations from the design with reasons  Suitability and completeness of the solution  Further work—what else you would like to do and what you would do differently?

Problems encountered

Suitability and completeness of solution

What would we do differently?

# Group involvement

Group Involvement  Project Plan Template: Have all members of the group contributed equivalently to the final submission? Use the provided Project Plan template to indicate the amount of work each member of the group has produced. The Project Plan Template can be downloaded from the DLE—find it under the Coursework Section.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Activity** | **Expected Start Date** | **Estimated Hours (per person)** | **Actual Start Date** | **Actual Hours Spent on this activity** | **Work Carried Out by** |
| **Data Model (ERD)** | 11 February | 10 | 19/02/19 | 2 | Sam, Seb, Zack, Josie |
| **Data Model (Normalisation)** | 18 February | 10 | 19/03/19 | 3 | Sam, Seb, Zack, Josie |
| **Development (MySQL)** | 25 February | 30 |  |  |  |
| **Report Writing** | 11 February | 10 | 26/03/19 | 1 | Josie |