# Coursework 1a scenario: Police traffic database

## Problem description

UK traffic police keep records of people and vehicles that have come to their attention, with information as shown below. They also keep records of reports that have been made, and a list of possible offences together with penalties for those offences (see https://www.gov.uk/browse/driving/penalty-points-fines-bans for realistic information on this to help give you inspiration).

### Vehicles

| | |
|---|---|
| Vehicle ID | The registration number / number plate of the vehicle |
| Make | The make of the vehicle (e.g. Vauxhall) |
| Model | The model of the vehicle (e.g. Astra) |
| Colour | The colour of the vehicle (e.g. grey) |
| Owner | The registered owner of the vehicle |

### People

| | |
|---|---|
| Name | The person's name |
| Address | The person's address (all in a single line) |
| DOB | The person's date of birth |
| License Number | The person's driving license number (16 alphanumeric characters) |
| Penalty points | The number of points on the person's license (0-12) |
| Fines | Records of fines issued to the person (including the offence, the amount of the fine and the number of penalty points awarded) |

### Offences

| | |
|---|---|
| Offence ID | Each offence has a numeric identifier |
| Description | A text description of the offence (e.g. "Failing to stop at a red light") |
| Maximum Fine | The possible maximum amount of the fine for this offence (both in terms of money and penalty points) |

## Reports

| | |
|---|---|
| Report ID | Each report has a numeric identifier |
| Time | Time and date of the report |
| Vehicle | ID (the registration number / number plate of the vehicle) |
| Driver License | The license number of the driver |
| Offence | The offense committed (if any – it is possible to give a warning when no offence is registered) |
| Statement | A general text report about the incident being filed |
| Officer ID | The number of the reporting police officer |