Guião 3

## 1.

### a)

**Relações:**

Cliente: cliente(nome, endereço, num\_carta, NIF)

Aluguer: aluguer(número, duração, data)

Balcão: balcao(nome, número, endereço)

Veículo: veiculo(matrícula, marca, ano)

Tipo\_veículo: tipo\_veiculo(designação, ar\_condicionado, código)

Similaridade: similaridade(codigo\_a, codigo\_b)

Pesado: pesado(peso, passageiros)

Ligeiro: ligeiro(numlugares, portas, combustivel)

### b)

|  | Cliente | Aluguer | Balcão | Veículo |
| --- | --- | --- | --- | --- |
| Chaves candidatas | num\_carta, NIF | número | número | matrícula |
| Chave principal | NIF | número | número | matrícula |
| Chaves estrangeiras |  | Titular, Local, Objecto |  | Tipo |

|  | Tipo\_veiculo | Similaridade | Pesado | Ligeiro |
| --- | --- | --- | --- | --- |
| Chaves candidatas | código | codigo\_a, codigo\_b | código | código |
| Chave principal | código | codigo\_a, codigo\_b | código | código |
| Chaves estrangeiras |  | codigo\_a, codigo\_b | código | código |

## 2.

### a)

### **Relações:**

Airport: airport(Airport\_Code, City, State, Name)

Airplane\_Type: airplane\_type(Type\_Name, Max\_Seats, Company)

Airplane: airplane(Airplane\_Id, Total\_No\_Of\_Seats, Airplane\_Type)

Flight\_Leg: flight\_leg(Leg\_no, Flight\_number, Airpor\_Code\_Dep, Airport\_Code\_Arr, Sch\_Dep\_Time, Sch\_Arr\_Time)

Flight: flight(Number, Airline, Weekdays)

Fare: fare(Code, Amount, Restrictions, Flight\_Number)

Leg\_Instance: leg\_instance(Date, No\_Of\_Avail\_Seats, Flight\_Number, Airport\_Code\_Dep, Airport\_Code\_Arr, Dep\_Time, Arr\_Time, Airplane)

Seat: seat(Date, Seat\_No, Flight\_Number, Leg\_Number, Costumer\_Name, Phone)

Can\_Land: can\_land(Airplane\_Type, Airport)

### 

### b)

|  | Airport | Airplane\_Type | Airplane | Flight\_Leg |
| --- | --- | --- | --- | --- |
| Chaves candidatas | Airport\_Code, Name | Type\_Name | Airplane\_id | Leg\_No |
| Chave principal | Airport\_Code | Type\_Name | Airplane\_id | Leg\_No |
| Chaves estrangeiras |  |  | Airplane\_type | Flight\_Number, Leg\_number, cod\_airport\_arr, cod\_airport\_dep |

|  | Flight | Fare | Leg\_instance | Can\_Land | Seat |
| --- | --- | --- | --- | --- | --- |
| Chaves candidatas | Number | Code | Date | Airport\_code, type\_name | Seat\_no, costumer\_name |
| Chave principal | Number | Code | Flight\_Number, Leg\_No, Date | Airport\_code, type\_name | Seat\_No |
| Chaves estrangeiras |  | Flight\_Number | Flight\_Number, Leg\_No, Airport\_Code\_Dep. Airport\_Code\_Arr.  Date  Airplane\_id | Airport\_code, type\_name | Flight\_Number, Leg\_Number, Date, flight\_number |