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# SPECIFICATION

CONTEXT

Small database which reflects the ownership of cars and insurance-packages per customer, with some side-information about insurance company, car and customer.

ENTITIES

Car: car\_id PK, brand, model

Customer: customer\_id PK, first\_name, last\_name, zip\_code

Insurance Company: company\_id PK, company\_name, company\_street, zip\_code

Owned Cars: owned\_car\_id PK, mileage, car\_colour\_id, package\_id, customer;id, car\_index\_id

Colour: colour\_id PK, colour

Insurance Package: package\_id PK, package\_name, package\_cost, company\_id

City: city\_zip PK, city\_name

RELATIONSHIPS

1:N

LocatedCustomerinCity, city to customer 1:N, Customer has to have a city

LocatedCompanyinCity, city to insurance\_company 1:N, insurance\_company has to have a city

HasCarOwner, customer to owned\_cars 1:N, owned\_cars has to have a customer

HasColour, car\_colour to owned\_cars 1:N, owned\_cars has to have a colour

IsCar, car\_index to owned\_cars 1:N, owned\_cars has to have a car\_index

HasPackage, insurance\_package to owned\_cars 1:N, owned\_cars has to have a insurance\_package

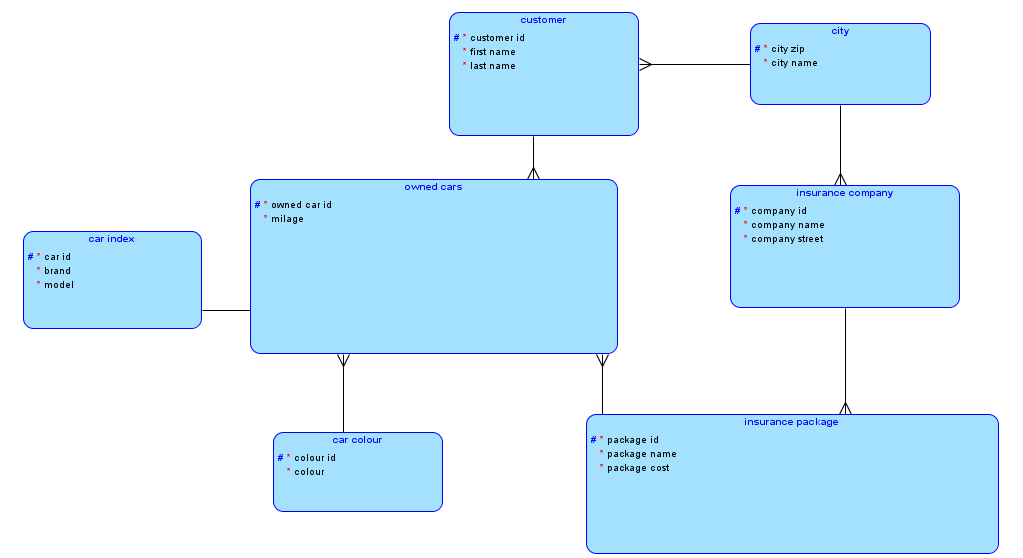
FromInsuranceCompany, insurance\_company to insurance\_package 1:N, insurance\_package has to have a

insurance\_company

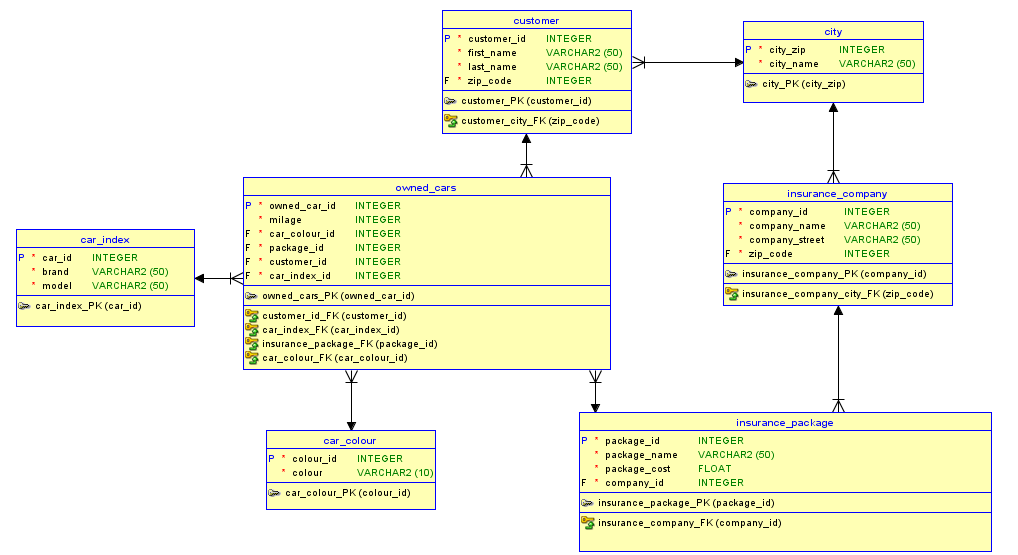
# DOMAINS

|  |  |
| --- | --- |
| Car\_index |  |
| car\_id | Integers: 1000-9999 |
| Brand | String (varchar 35) |
| model | String (varchar 35) |
|  |  |
| Customer |  |
| Customer\_id | Integer: 0-999999 |
| First\_name | String (varchar 50) |
| Last\_name | String (varchar 50) |
| Zip\_code | Integer: 1000-9999 |
|  |  |
| City |  |
| City\_zip | Integer: 1000-9999 |
| City\_name | String (varchar 50) |
|  |  |
| Insurance\_company |  |
| Company\_id | Integer: 0-9999 |
| Company\_name | String (varchar 50) |
| Company\_street | String (varchar 50) |
| Zip\_code | Integer: 1000-9999 |
|  |  |
| Insurance\_package |  |
| Package\_id | Integer: 0-9999 |
| Package\_name | String (varchar 50) |
| Package\_cost | Float: max. 99999.99 |
| Company\_id | Integer: 0-9999 |
|  |  |
| Car\_colour |  |
| Colour\_id | Integer: 0-999 |
| colour | String (varchar 10) |
|  |  |
| Owned\_car |  |
| Owned\_car\_id | Integers: 0-9999 |
| Mileage | Integer: 0-9999999 |
| Car\_colour\_id | Integer: 0-999 |
| Package\_id | Integer: 0-9999 |
| Customer\_id | Integer: 0-999999 |
| Car\_index\_id | Integers: 1000-9999 |
|  |  |

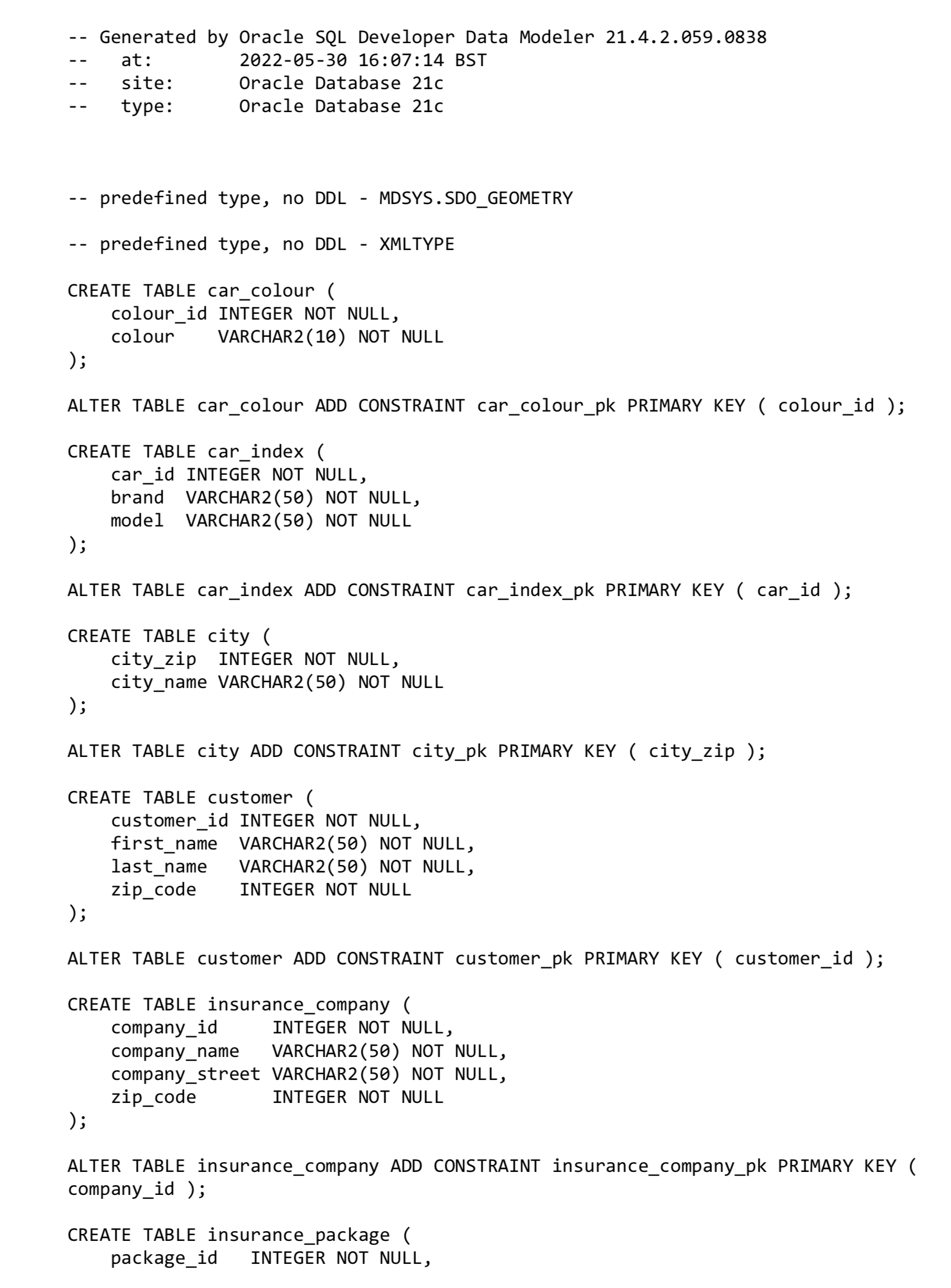
# LOGICAL DESIGN

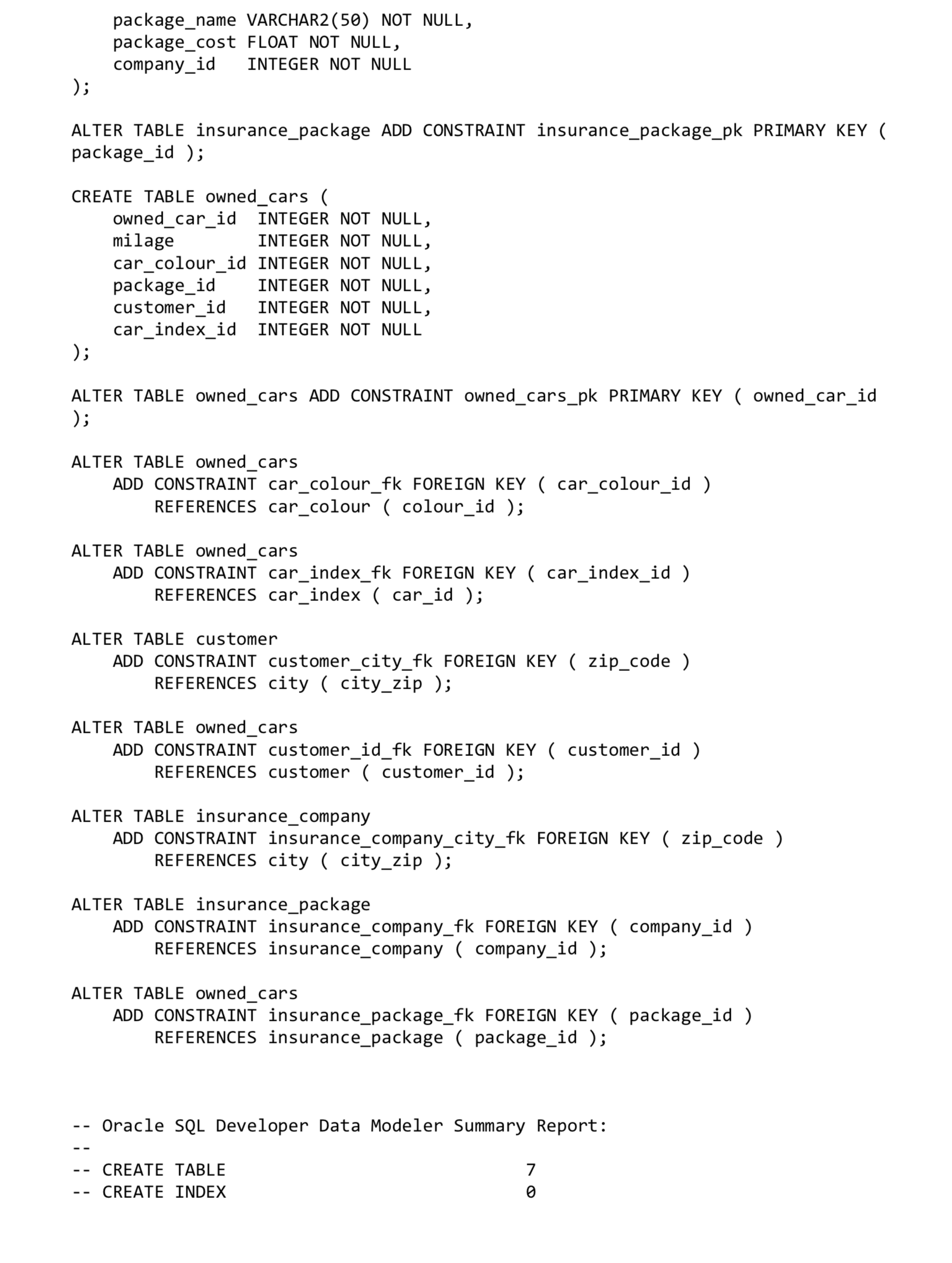


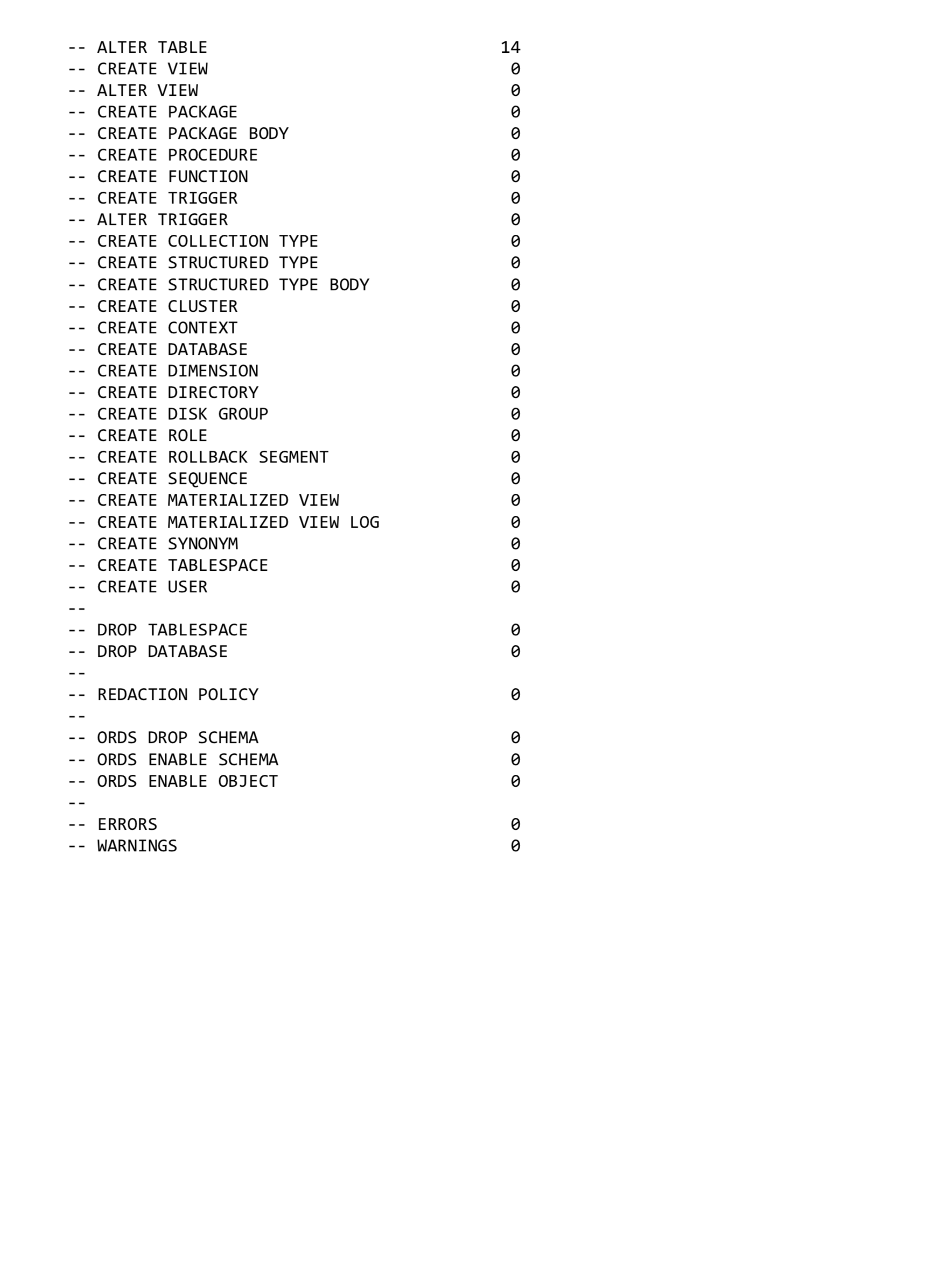
# RELATIONAL DESIGN



# DDL

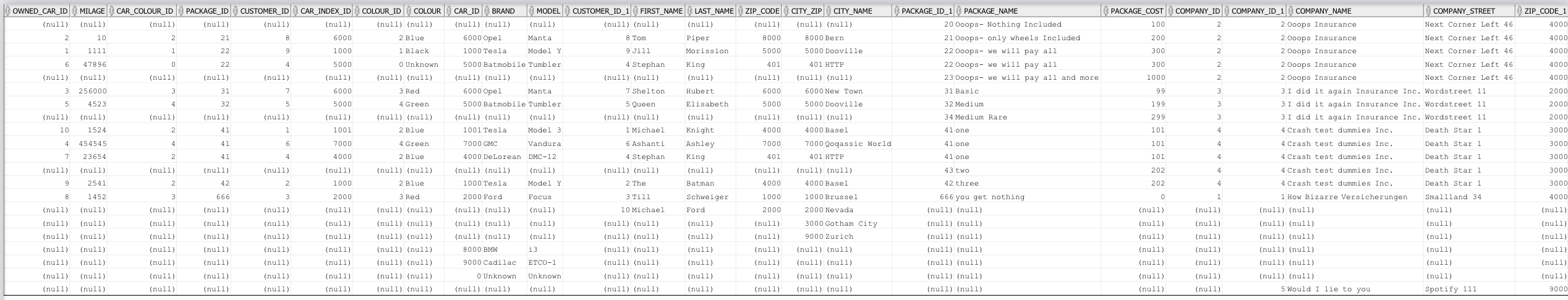
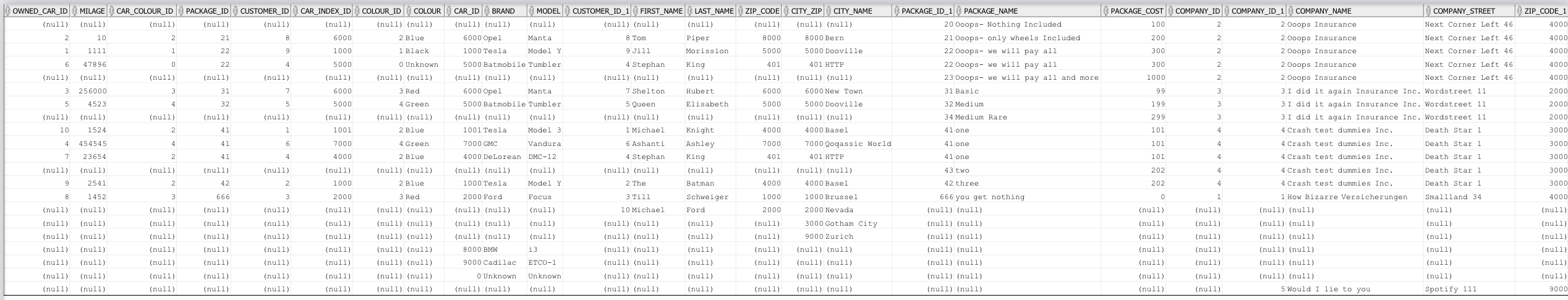
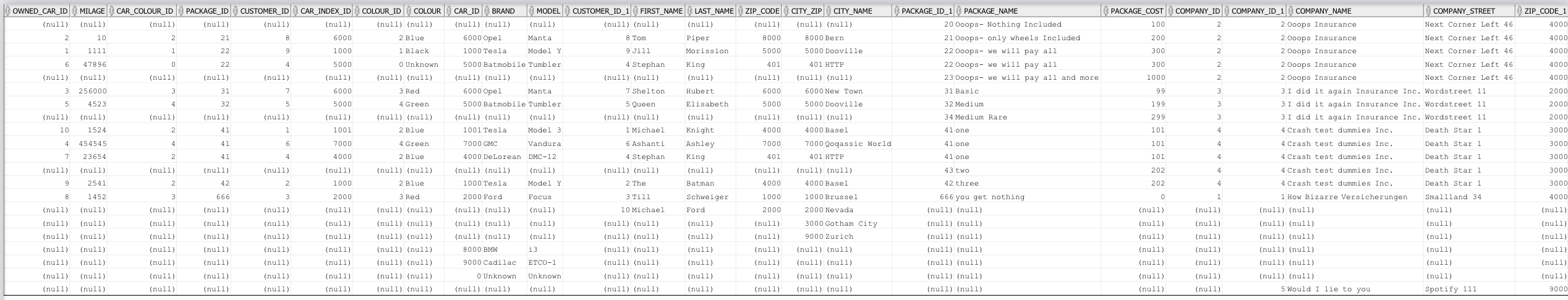






# DATA

# JOIN



# STORED PROCEDURE

