1. **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

Owned\_cars: customer\_id:customer\_id, customer\_id depends on one customer, must

Owned\_cars: package\_id: package\_id, package\_id depends on one insurance package, must

Owned\_cars: car\_index\_id:car\_id, car\_index\_id depends on one car\_id from car\_index, must

Owned\_cars: car\_colour\_id:colour\_id, car\_colour\_id depends on colour\_id from colour, may

Insurance\_Company: zip\_code:city\_zip, city\_zip refers to one city, must

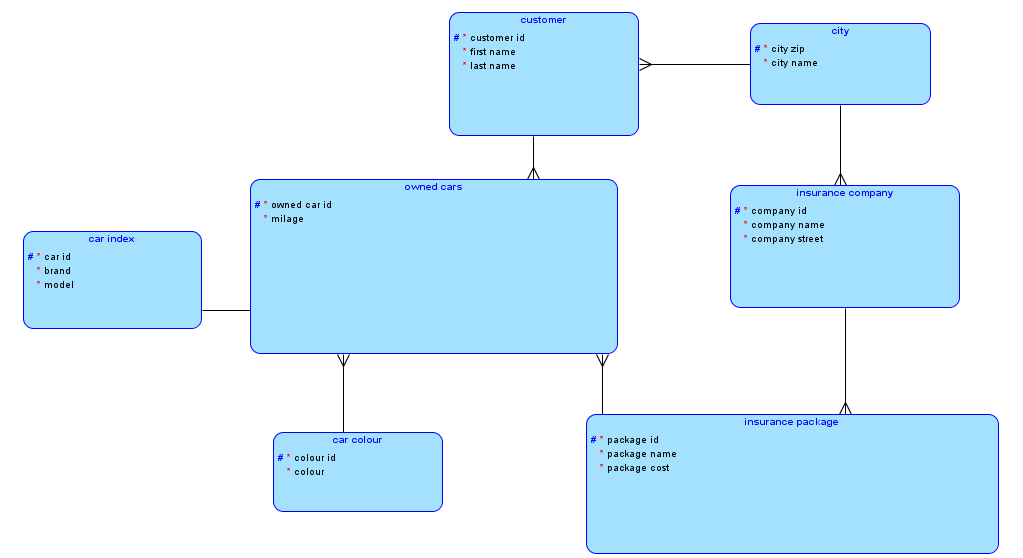
Insurance\_package: company\_id:company:\_id, refers to one insurance company, must

Customer: zip\_code:city\_zip, city\_zip refers to one city, must

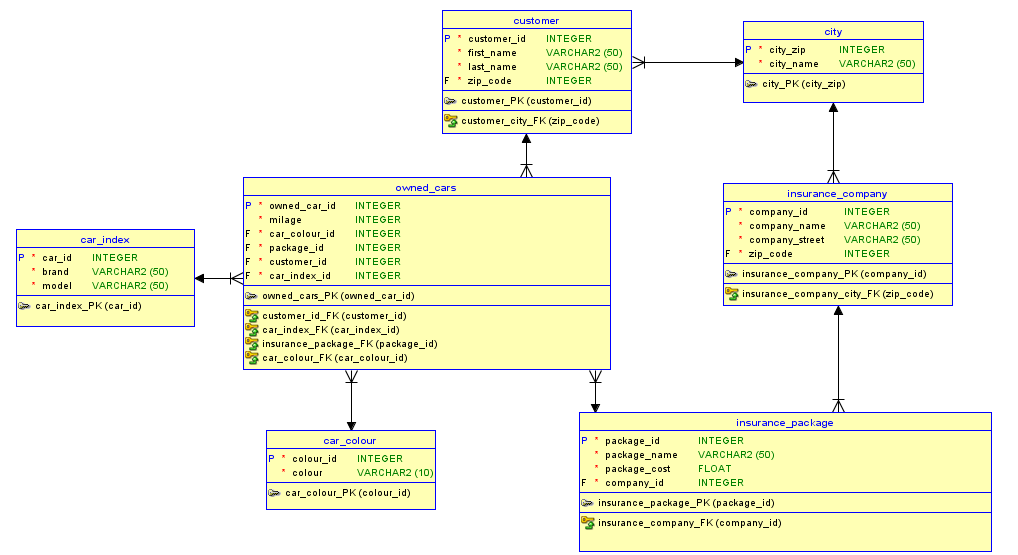
1. **DOMAINS**

|  |  |
| --- | --- |
| 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 |
|  |  |

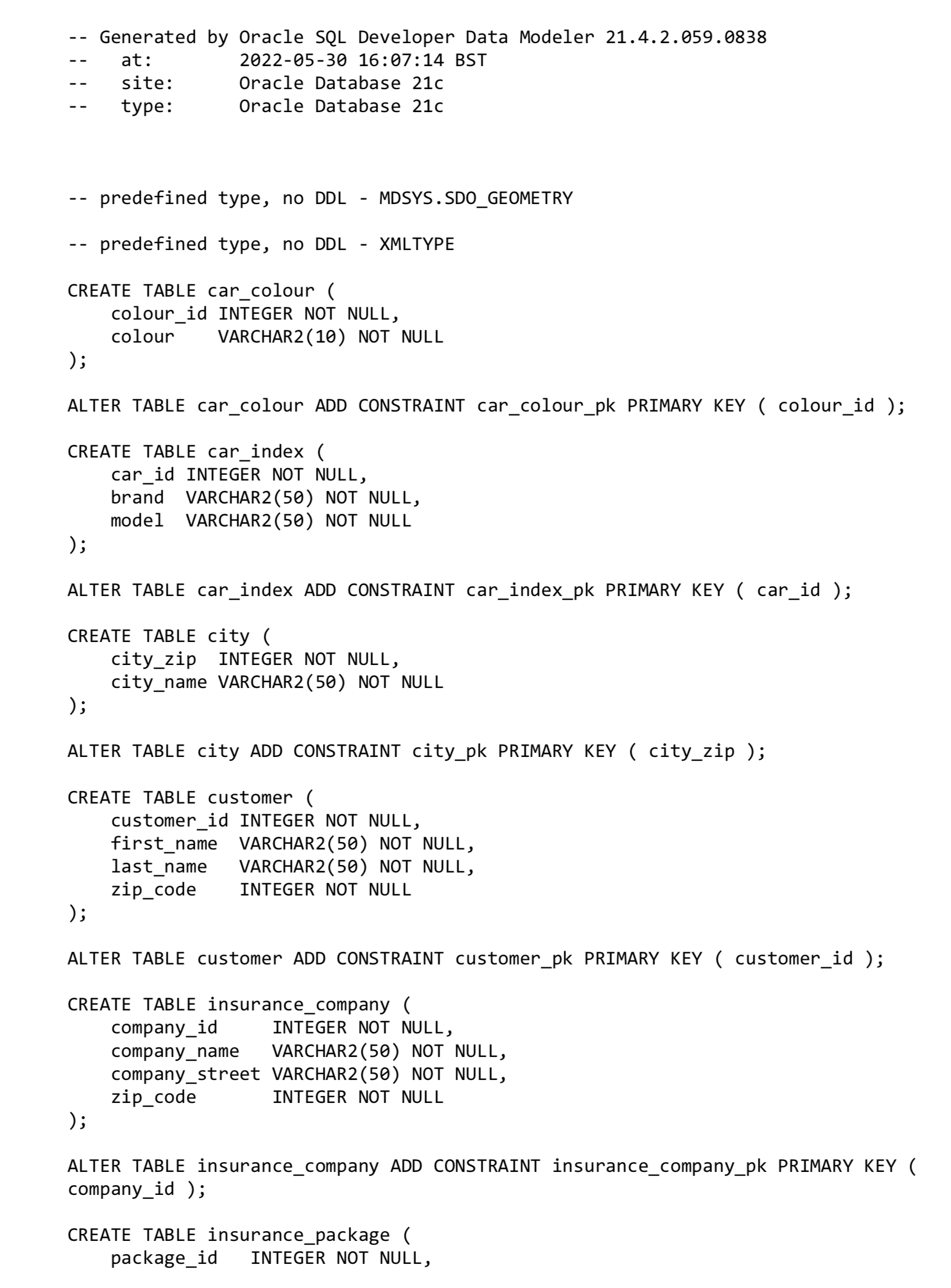
1. **LOGICAL DESIGN**

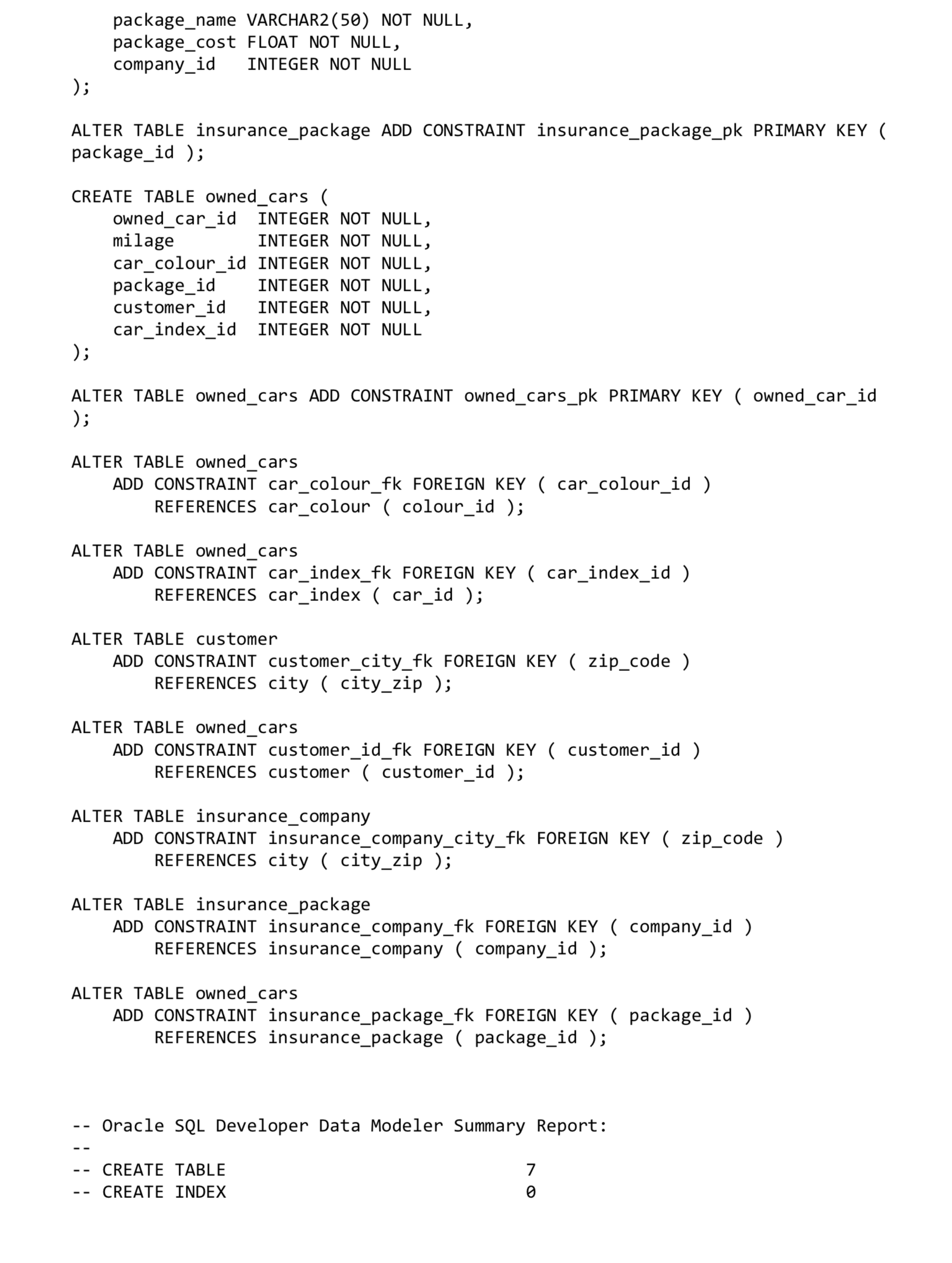


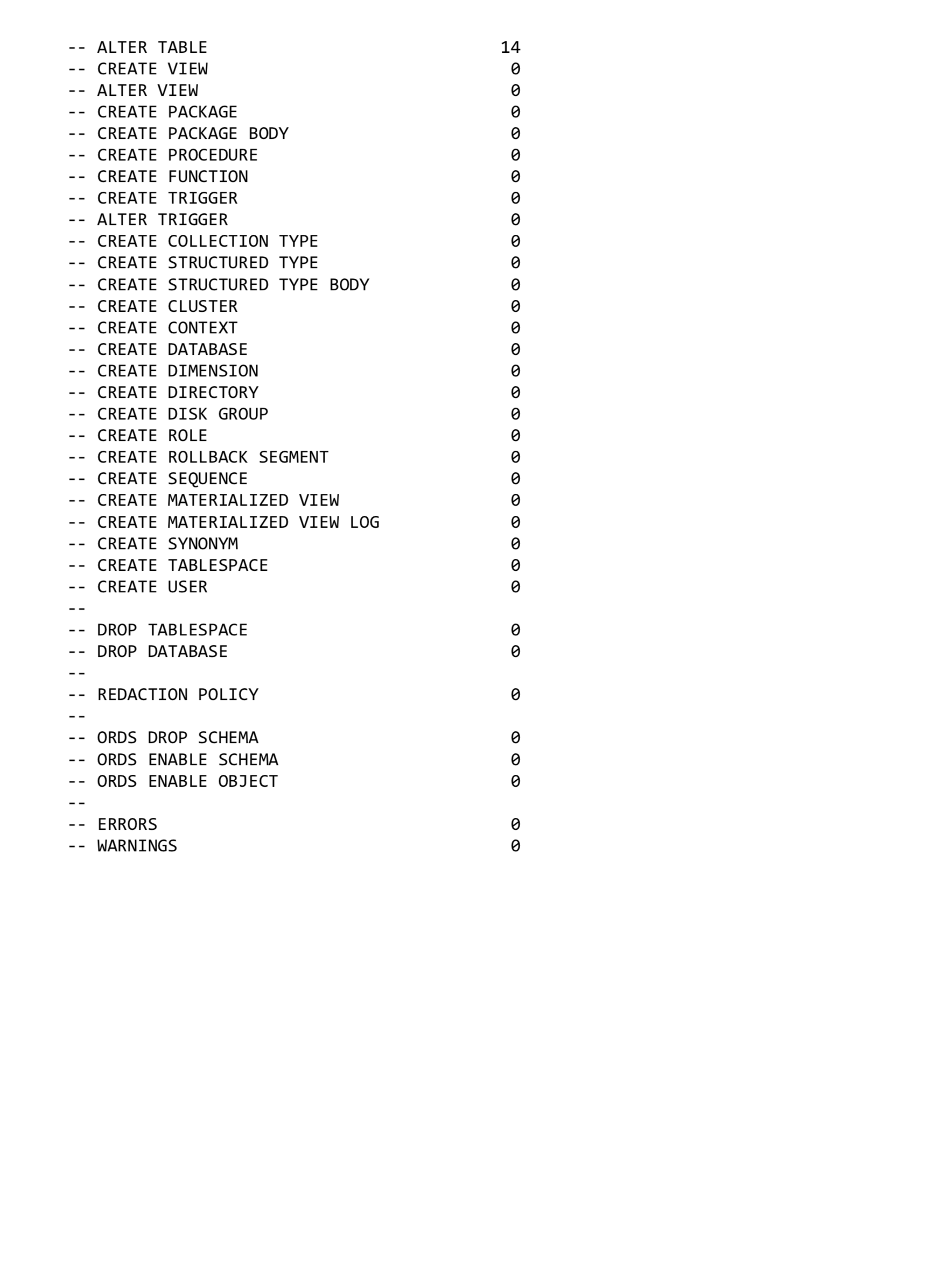
1. **RELATIONAL DESIGN**

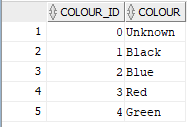
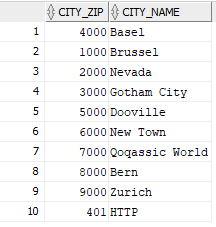
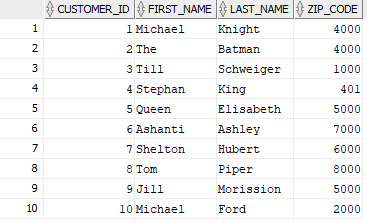
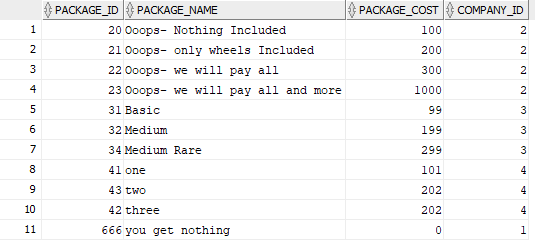
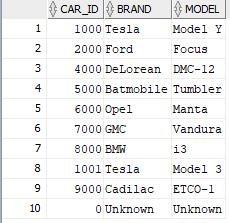


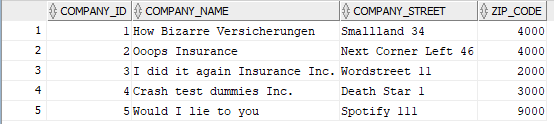
1. **DDL**

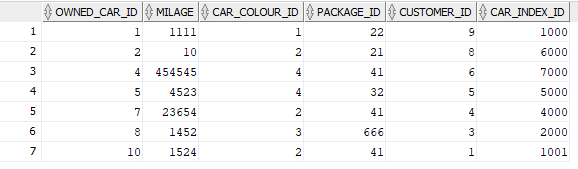






1. **DATA**





1. **JOIN**
2. **STORED PROCEDURE**

