**ESQUEMA RELACIONAL R<T,L>**

1. **EMPLOYEES⟨T, L⟩**

* **T (Atributos)**: {id\_employee, name, id\_number, phone, address, position, id\_boss, LOCATIONS\_id\_location}
* **L (Dependencias funcionales)**:
  + {id\_employee} → {name, id\_number, phone, address, position, id\_boss, LOCATIONS\_id\_location}
  + {id\_boss} → {id\_employee} (auto-referencia para el jefe)
  + {LOCATIONS\_id\_location} → {id\_employee} (empleado asignado a una ubicación)

2. **PARTICIPATION\_INSPECTIONS⟨T, L⟩**

* **T**: {EMPLOYEES\_id\_employee, INSPECTION\_id\_inspection}
* **L**:
  + {EMPLOYEES\_id\_employee, INSPECTION\_id\_inspection} → {} (indica que la combinación de empleado e inspección es única)

3. **CLIENTS⟨T, L⟩**

* **T**: {id\_number, name, phone, address, license\_number}
* **L**:
  + {id\_number} → {name, phone, address, license\_number} (id\_number identifica de forma única a cada cliente)

4. **LOCATIONS⟨T, L⟩**

* **T**: {id\_location, address, operating\_costs}
* **L**:
  + {id\_location} → {address, operating\_costs} (cada ubicación es única con sus costos y dirección)

5. **RESERVATIONS⟨T, L⟩**

* **T**: {id\_reservation, start\_date, end\_date, reservation\_price, id\_employee, id\_client, vehicle\_license\_plate}
* **L**:
  + {id\_reservation} → {start\_date, end\_date, reservation\_price, id\_employee, id\_client, vehicle\_license\_plate}
  + {id\_client} → {id\_reservation} (cada cliente solo tiene una reserva activa a la vez)

6. **CATEGORIES⟨T, L⟩**

* **T**: {brand, model, year, color, vehicle\_type, daily\_rate}
* **L**:
  + {brand, model, year, color, vehicle\_type} → {daily\_rate} (la combinación de estos atributos identifica el tipo y tarifa de vehículo)

7. **SOATs⟨T, L⟩**

* **T**: {soat\_id, expiration\_date, information}
* **L**:
  + {soat\_id} → {expiration\_date, information} (cada SOAT tiene un identificador único)

8. **VEHICLES⟨T, L⟩**

* **T**: {license\_plate, brand, model, year, color, vehicle\_type, status, id\_location, soat\_id}
* **L**:
  + {license\_plate} → {brand, model, year, color, vehicle\_type, status, id\_location, soat\_id}
  + {soat\_id} → {expiration\_date} (identificación de SOAT de cada vehículo)

9. **INSPECTION⟨T, L⟩**

* **T**: {id\_inspection, date, vehicle\_status, id\_location, vehicle\_license\_plate}
* **L**:
  + {id\_inspection} → {date, vehicle\_status, id\_location, vehicle\_license\_plate} (cada inspección tiene un identificador único)
  + {vehicle\_license\_plate} → {vehicle\_status} (estado asociado al vehículo)

10. **OBSERVATIONS⟨T, L⟩**

* **T**: {id, id\_inspection, text}
* **L**:
  + {id, id\_inspection} → {text} (cada observación es única para cada inspección)