1. create database cochesBD;

2.

```
create table Coche(
CodCoche integer auto_increment primary key,
Matricula varchar(8) unique not null,
Marca varchar(15),
Color varchar(20) default 'blanco',
Precio decimal(10,2),
FechaMatricula date,
Garantia boolean default true,
constraint check (Precio > 6000 and Precio < 200000),
constraint check (FechaMatricula > '2010-01-01')
);
create table Cliente(
CodCliente varchar(5) primary key,
Nombre varchar(30),
Apellidos varchar(60),
Telef char(10),
FechaNac date,
Ciudad varchar(50) default 'Las Palmas G.C.',
Email varchar(50)
);
create table Alquiler(
IdCoche integer,
IdCliente varchar(5),
FechaIni date default (curdate()),
HoraIni time not null,
PrecioDia decimal,
FechaDev date,
constraint alquiler_pk primary key (IdCoche, IdCliente, FechaIni),
constraint alguiler_limite_precio check (PrecioDia > 8.5 and PrecioDia < 200.6),
```

constraint alquiler_fk_coche foreign key (IdCoche) references Coche(CodCoche) on update cascade,

 $constraint\ alquiler_fk_cliente\ foreign\ key\ (IdCliente)\ references\ Cliente(CodCliente)\ on\ update\ cascade$

);

```
mysql> create table Coche(

-> CodCoche integer auto_increment primary key,
-> Matricula varchar(8) unique not null,
-> Marca varchar(15),
-> Color varchar(20) default 'blanco',
-> Precio decimal(10,2),
-> FechaMatricula date,
-> Carantia boolean default true,
-> constraint check (Precio > 6000 and Precio < 200000),
-> constraint check (FechaMatricula > '2010-01-01')
-> );
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> create table Cliente(
   -> CodCliente varchar(5) primary key,
   -> Nombre varchar(30),
   -> Apellidos varchar(60),
   -> Telef char(10),
   -> FechaNac date,
   -> Ciudad varchar(50) default 'Las Palmas G.C.',
   -> Email varchar(50)
   -> );
Query OK, 0 rows affected (0.02 sec)
```

3. alter table coche drop Color, add column Nplazas integer, add column Automatico boolean, add column Combustible varchar(1), add constraint check (Combustible in ('G', 'D', 'E', 'H'))

4. insert into coche (Matricula, Marca, Precio, Nplazas, Combustible) values ('4578KHG', 'Peugeot', 15000, 5, 'G'), ('9952BAE', 'Audi A1', 25000, 4, 'G'), ('8000RAE', 'Seat Ibiza', 7000, 5, 'D');

insert into cliente (CodCliente, Nombre, Apellidos, Email) values ('CL001', 'Juan', 'Naranjo Gil', 'jnaranjo@gmail.com'), ('CL002', 'Ana', 'Mena Rojas', NULL), ('CL003', 'Rosa', 'Del Monte Verde', NULL);

5. alter table cliente add column Avalista varchar(5);

alter table cliente add constraint cliente_avalista foreign key (Avalista) references Cliente(CodCliente) on update cascade;

6. update coche set FechaMatricula = '2005-06-15' where Matricula = '4578KHG';

update coche set FechaMatricula = '2015-06-15' where Matricula = '4578KHG';

```
mysql> update coche
-> set FechaMatricula = '2005-06-15'
-> where Matricula = '4578KHG';
ERROR 3819 (HY000): Check constraint 'coche_chk_2' is violated.
mysql>
mysql>
mysql>
mysql>
mysql>
coche
-> set FechaMatricula = '2015-06-15'
-> where Matricula = '4578KHG';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from coche;

CodCoche | Matricula | Marca | Precio | FechaMatricula | Garantia | Nplazas | Automatico | Combustible |

1 | 4578KHG | Peugeot | 15000.00 | 2015-06-15 | 1 | 5 | NULL | G |

2 | 9952BAE | Audi A1 | 25000.00 | NULL | 1 | 4 | NULL | G |

3 | 8000RAE | Seat Ibiza | 7000.00 | NULL | 1 | 5 | NULL | D |

3 | rows in set (0.00 sec)
```

7. update cliente set Email = lcase(concat(Nombre,substr(Apellidos,1,1),'-',year(curdate()),'@gmail.com')) where Email IS NULL;

```
mysql> update cliente
-> set Email = lcase(concat(Nombre,substr(Apellidos,1,1),'-',year(curdate()),'@gmail.com'))
-> where Email IS NULL;
Query OK, 2 rows affected (0.00 sec)
Nows matched: 2 Changad; 2 Warnings: 0

mysql> select * from cliente;

CodCliente | Nombre | Apellidos | Telef | FechaNac | Cludad | Email | Avalista |

CL001 | Duan | Naranjo Gil | NULL | NULL | Las Palmas G.C. | jnaranjo@gmail.com | NULL |

CL002 | Ana | Mena Rojas | NULL | NULL | Las Palmas G.C. | anam-2024@gmail.com | NULL |

CL003 | Rosa | Del Monte Verde | NULL | NULL | Las Palmas G.C. | rosad-2024@gmail.com | NULL |

3 rows in set (0.00 sec)
```

9. delete from coche where Combustible = 'D';

10.
rename table
Coche to Coches,
Cliente to Clientes,
Alquiler to Alquileres;