create table transmission (

id serial primary key,

name varchar(100)

);

create table car\_body (

id serial primary key,

name varchar(100)

);

create table engine (

id serial primary key,

name varchar(100)

)

insert into transmission (name) values ('manual');

insert into transmission (name) values ('automatic');

insert into transmission (name) values ('CVT');

insert into car\_body (name) values ('sedan');

insert into car\_body (name) values ('hatchback');

insert into car\_body (name) values ('minivan');

insert into car\_body (name) values ('cabriolet');

insert into car\_body (name) values ('crossover');

insert into engine (name) values ('V2');

insert into engine (name) values ('V4');

insert into engine (name) values ('V6');

insert into engine (name) values ('V8');

create table cars (

id serial primary key,

name varchar(100),

transmission\_id int references transmission(id),

car\_body\_id int references car\_body(id),

engine\_id int references engine(id)

);

insert into cars (name, transmission\_id, car\_body\_id, engine\_id) values ('mustang','1','4','4');

insert into cars (name, transmission\_id, car\_body\_id, engine\_id) values ('BMW','2','1','2');

insert into cars (name, transmission\_id, car\_body\_id, engine\_id) values ('MINI','2','2','1');

select c.name as car, t.name as transmission, b.name as body, e.name as engine from cars as c

left outer join transmission as t on c.transmission\_id = t.id

left outer join car\_body as b on c.car\_body\_id = b.id

left outer join engine as e on c.engine\_id = e.id;

select t.name as transmission\_not\_use from transmission as t left outer join cars as c on t.id = c.transmission\_id where c.id is null;

select b.name as body\_not\_use from car\_body as b left outer join cars as c on b.id = c.car\_body\_id where c.id is null;

select e.name as engine\_not\_use from engine as e left outer join cars as c on e.id = c.engine\_id where c.id is null;