```sql
create database secureincome;
use secureincome;

create table rol (
id_rol varchar (10) not null,
tipo_rol varchar(20) not null,
primary key (id_rol)
);

create table tipo_de_sangre (
id_rh varchar (10) not null,
tipo_rh varchar (5) not null,
primary key (id_rh)
);

create table ficha (
id_ficha varchar (10) not null,
num_ficha int not null,
nom_programa varchar (255) not null,
primary key (id_ficha)
);

create table genero (
id_gen varchar (10) not null,
tipo_gen varchar (15) not null,
primary key (id_gen)
);

create table tipo_documento (
id_tdoc varchar (30) not null,
tipo_doc varchar (255),
```

```sql
primary key (id_tdoc)
);


create table usuario (
id_usu varchar (10) not null,
pri_nom_usu varchar (30) not null,
seg_nom_usu varchar (30),
pri_ape_usu varchar (30) not null,
seg_ape_usu varchar (30),
code_barras_usu varchar (30) not null,
edad_usu int not null,
correo_usu varchar (255) unique,
id_rol varchar (10) not null,
id_rh varchar (10) not null,
id_ficha varchar (10) not null,
id_gen varchar (10) not null,
id_tdoc varchar (30) not null,
foreign key (id_rh) references tipo_de_sangre (id_rh)
);


create table vigilante (
id_vig varchar (15) not null,
correo_vig varchar (50) unique,
contra_vig int not null,
pri_nom_vig varchar (30) not null,
seg_nom_vig varchar (30),
pri_ape_vig varchar (30) not null,
seg_ape_vig varchar (30),
id_tdoc varchar (30) not null
);
```

```sql
create table jornada (
id_jor varchar (15) not null,
tipo_jor varchar (20) not null,
primary key (id_jor)
);

create table jornada_vigilante (
id_vig varchar (15) not null,
id_jor varchar (15) not null,
id_tdoc varchar (30) not null
);

create table marca (
id_mar varchar (10) not null,
nom_mar varchar (20) not null,
primary key (id_mar)
);

create table equipo (
id_equi varchar (10) not null,
tipo_equi varchar (15) not null,
serial_pc varchar (20) unique,
id_mar varchar (10) not null,
id_rol varchar (10) not null,
id_ficha varchar (10) not null,
id_gen varchar (10) not null,
id_tdoc varchar (30) not null,
id_usu varchar (10) not null,
foreign key (id_mar) references marca (id_mar)
);
```

```sql
create table registro (
id_reg varchar (10) not null,
hora_ing time not null,
hora_sal time not null,
fecha_ing date not null,
fecha_sal date not null,
id_mar varchar (10) not null,
id_rol varchar (10) not null,
id_ficha varchar (10) not null,
id_gen varchar (10) not null,
id_tdoc varchar (30) not null,
id_usu varchar (10) not null,
id_vig varchar (15) not null,
id_jor varchar (15) not null
);


create table log_error (
Id_error varchar (20) not null,
desc_error text,
primary key (Id_error)
);


create table Serv_correo (
Id_serv_corr varchar(10) not null,
tipo_servidor_web varchar (15) not null,
primary key (Id_serv_corr)
);


alter table usuario add constraint fk_gen foreign key (id_gen) references genero (id_gen);
alter table usuario add constraint fk_tdoc foreign key (id_tdoc) references tipo_documento (id_tdoc);
```

```sql
alter table usuario add constraint fk_rol foreign key (id_rol) references rol (id_rol);

alter table usuario add constraint fk_ficha foreign key (id_ficha) references ficha (id_ficha);

alter table usuario add primary key (id_gen,id_tdoc,id_rol,id_ficha,id_usu);


alter table vigilante add constraint fk_vign foreign key (id_tdoc) references tipo_documento (id_tdoc);

alter table vigilante add primary key (id_vig,id_tdoc);


alter table jornada_vigilante add constraint fk_jors foreign key (id_jor) references jornada (id_jor);

alter table jornada_vigilante add constraint fk_vigi foreign key (id_vig,id_tdoc) references vigilante (id_vig,id_tdoc);

alter table jornada_vigilante add primary key (id_jor,id_vig,id_tdoc);


alter table equipo add constraint fk_usu foreign key (id_gen,id_tdoc,id_rol,id_ficha,id_usu) references usuario (id_gen,id_tdoc,id_rol,id_ficha,id_usu);

alter table equipo add primary key (id_gen,id_tdoc,id_rol,id_ficha,id_usu,id_equi);



alter table registro add constraint fk_vidfg foreign key (id_vig) references vigilante (id_vig);

alter table registro add constraint fk_jords foreign key (id_jor) references jornada (id_jor);

alter table registro add constraint fk_usufd foreign key (id_gen,id_tdoc,id_rol,id_ficha,id_usu) references usuario (id_gen,id_tdoc,id_rol,id_ficha,id_usu);

alter table registro add primary key (id_gen,id_tdoc,id_ficha,id_vig,id_jor,id_rol,id_usu,id_reg);


--Registros

insert into rol
(id_rol, tipo_rol)
values('R1','APRENDIZ'),
('R2','VISITANTE'),
('R3','INSTRUCTOR');
```

```sql
insert into tipo_de_sangre

(id_rh, tipo_rh)

values('RH1','O+'),

('RH2','O-'),

('RH3','A+'),

('RH4','A-'),

('RH5','AB-');


insert into ficha

(id_ficha, num_ficha, nom_programa)

values('F1','1566598','ADSI'),

('F2','1503959','MULTIMEDIA'),

('F3','1503538','PROGRAMACION DE SOFTWARE'),

('F4','1503561','TELECOMUNICACIONES');


insert into genero

(id_gen, tipo_gen)

values('G1','MASCULINO'),

('G2','FEMENINO');


insert into tipo_documento

(id_tdoc, tipo_doc)

values('Z1','CEDULA DE CIUDADANIA'),

('Z2','TARJETA DE IDENTIDAD'),

('Z3','CEDULA ESTRANGERIA'),

('Z4','PASAPORTE');


insert into vigilante

(id_vig, correo_vig, contra_vig, pri_nom_vig, seg_nom_vig, pri_ape_vig, seg_ape_vig, id_tdoc)

values('V1','joseg12@hotmail.com','12345','Pedro','Jose','Gutierrez','Mesa','Z1'),

('V2','juanm58@hotmail.com','12345','Juan','Manuel','Tarta','Velez','Z1'),
```

```
('V3','Andresf45@hotmail.com','12345','Andres','Felipe','Rojas','Chavez','Z1');


insert into usuario

(id_usu, pri_nom_usu, seg_nom_usu, pri_ape_usu, seg_ape_usu,
edad_usu,correo_usu,code_barras_usu,id_rol,id_rh,id_ficha,id_gen,id_tdoc)

values('U1','Juan','Miguel
','Antonio','Perez','18','jmantonio26@misena.edu.co','G500','R1','RH1','F1','G1','Z1'),

('U2','Carlos','Andres
','Henao','Calderon','35','cahenao32@misena.edu.co','G600','R3','RH2','F2','G1','Z1'),

('U3','Natalia','Andrea
','Trujillo','Calderon','20','ntrujillo35@misena.edu.co','G700','R1','RH3','F1','G2','Z1'),

('U4','Karen','Tatiana
','Valbuena','Martinez','31','ktvalbuena11@misena.edu.co','G100','R3','RH1','F3','G2','Z1'),

('U5','John','Freddy
','Martinez','Garavito','22','jfmartinez64@misena.edu.co','G200','R1','RH2','F4','G1','Z1'),

('U6','Elver','Tomas
','Gomez','Tovar','40','etgomez632@misena.edu.co','G900','R3','RH3','F1','G1','Z1'),

('U7','Laura','Sofia
','Torres','Martinez','25','lstorrez654@misena.edu.co','G1030','R2','RH1','F3','G2','Z1'),

('U8','Karen ','Dallana
','Perez','Rodriguez','19','kdperez24@misena.edu.co','G300','R1','RH1','F4','G2','Z1'),

('U9','Pedro','Ulises
','Tavares','Beltran','45','putavares21@misena.edu.co','G400','R2','RH2','F3','G1','Z1');


insert into jornada

(id_jor,tipo_jor)

values ('J1','Diurna'),

('J2','Nocturna'),

('J3','Fin_Semana');


insert into jornada_vigilante

(id_vig,id_jor,id_tdoc)

values ('V1','J1','Z1'),

('V1','J2','Z1'),

('V1','J3','Z1'),
```

```sql
('V2','J1','Z1'),

('V2','J2','Z1'),

('V2','J3','Z1'),

('V3','J1','Z1'),

('V3','J2','Z1'),

('V3','J3','Z1');


insert into marca

(id_mar,nom_mar)

values('M1','SAMSUNG'),

('M2','LG'),

('M3','ACER'),

('M4','HP'),

('M5','DELL'),

('M6','LENOVO'),

('M7','APPLE'),

('M8','TOSHIBA'),

('M9','ASUS'),

('M10','ALIENWARE'),

('M11','LANIX');

insert into equipo

(id_equi,tipo_equi,serial_pc,id_mar,id_rol,id_ficha,id_gen,id_tdoc,id_usu)

values('E1','PORTATIL','1015125','M1','R1','F1','G1','Z1','U1'),

('E2','VIDEOVIN','1015126','M2','R1','F1','G1','Z1','U1'),

('E1','PORTATIL','4256575','M3','R3','F2','G1','Z1','U2'),

('E1','PORTATIL','45645644','M4','R1','F1','G2','Z1','U3'),

('E1','PORTATIL','56546454','M5','R3','F3','G2','Z1','U4'),

('E2','VIDEOVIN','56546456','M6','R3','F3','G2','Z1','U4'),

('E1','PORTATIL','12378645','M7','R1','F4','G1','Z1','U5'),
```

```sql
('E1','PORTATIL','15248564','M8','R3','F1','G1','Z1','U6'),

('E1','PORTATIL','16258466','M9','R2','F3','G2','Z1','U7'),

('E1','PORTATIL','87662842','M10','R1','F4','G2','Z1','U8'),

('E1','PORTATIL','75738387','M11','R2','F3','G1','Z1','U9');


insert into registro

(id_reg,hora_ing,hora_sal,fecha_ing,fecha_sal,id_mar,id_rol,id_ficha,id_gen,id_tdoc,id_usu,id_vig,id_jor)

values('RG1','06:15:00','12:15:10','2018/02/02','2018/02/02','M1','R1','F1','G1','Z1','U1','V1','J1'),

('RG2','06:15:00','12:15:10','2018/02/02','2018/02/02','M2','R1','F1','G1','Z1','U1','V1','J1'),

('RG3','18:05:15','21:30:04','2018/03/01','2018/03/01','M3','R3','F2','G1','Z1','U2','V3','J2'),

('RG4','06:17:04','12:17:10','2018/04/09','2018/04/09','M4','R1','F1','G2','Z1','U3','V1','J1'),

('RG5','08:20:03','16:30:04','2018/05/06','2018/05/06','M5','R3','F3','G2','Z1','U4','V2','J3'),

('RG6','08:20:03','16:30:04','2018/05/06','2018/05/06','M6','R3','F3','G2','Z1','U4','V2','J3'),

('RG7','06:20:08','12:30:50','2018/04/07','2018/04/07','M7','R1','F4','G1','Z1','U5','V1','J1'),

('RG8','06:00:10','12:45:10','2018/04/15','2018/04/15','M8','R3','F1','G1','Z1','U6','V1','J1'),

('RG9','18:00:15','21:28:45','2018/06/22','2018/06/22','M9','R2','F3','G2','Z1','U7','V3','J2'),

('RG10','06:13:45','12:15:47','2018/07/30','2018/07/30','M10','R1','F4','G2','Z1','U8','V1','J1'),

('RG11','08:17:23','16:40:23','2018/02/24','2018/02/24','M11','R2','F3','G1','Z1','U9','V2','J3');


--Busquedas

select * from registro;

select * from equipo;

select * from usuario;

select * from vigilante;
```