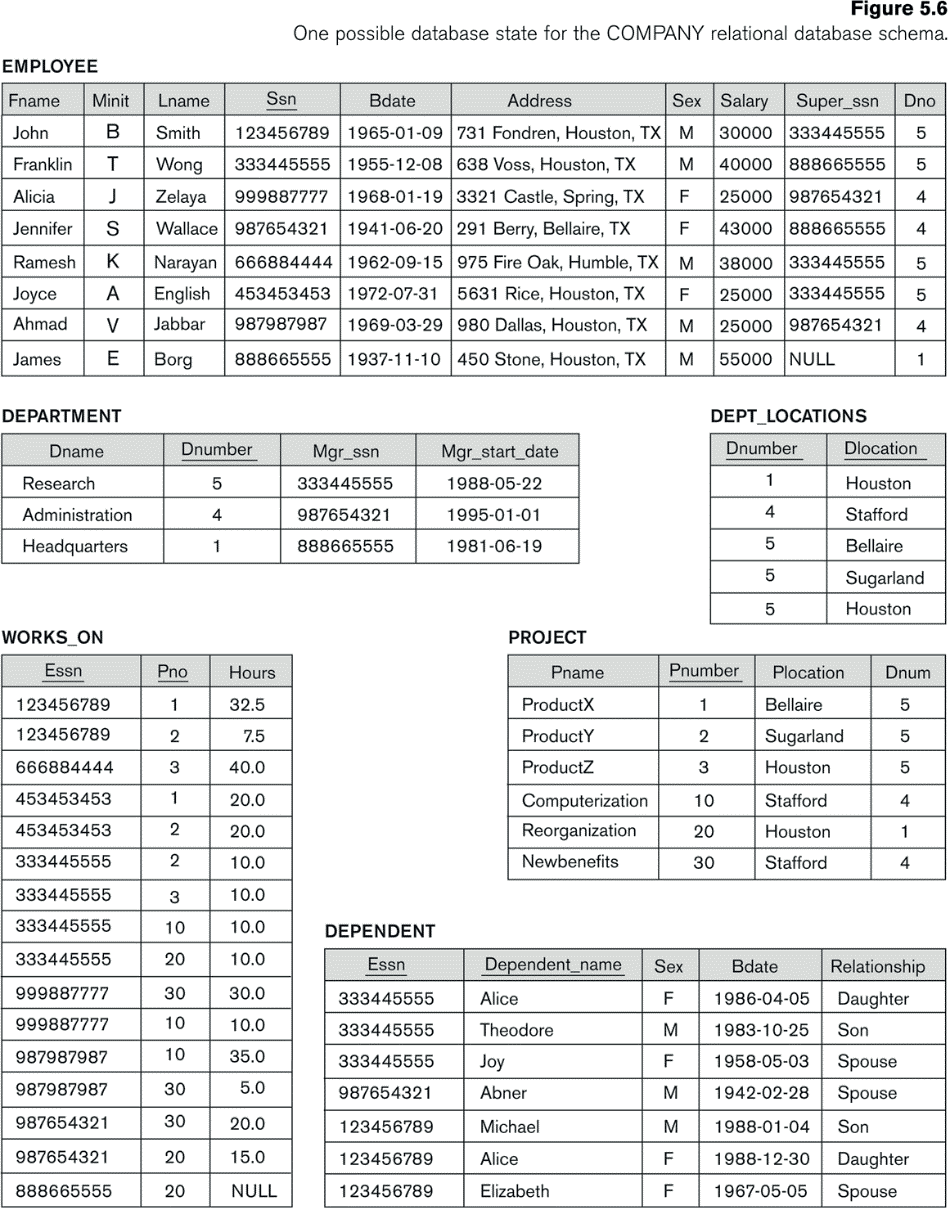
**Teaching-learning activities**

1. Realise the physical design of the COMPANY database.



**Use the SQL language to carry out the exercise.**

1. The following modifications must be made in the ***Company*** database:

- Remove the Adress field from the Employee table.

ALTER TABLE EMPLOYEE DROP COLUMN Adress CASCADE;

- Add a column in the Project table called Hours that will indicate the duration in hours for each project.

ALTER TABLE PROJECT ADD COLUMN Hours (int);

- Removes the Mgr\_start\_date field from the Department table.

ALTER TABLE DEPARTMENT DROP COLUMN Mgr\_start\_date CASCADE;

- Rename the Relationship column in the Dependent table to Family.

ALTER TABLE DEPENDENT CHANGE Relationship Family VARCHAR(8);

2. Carry out the physical design of the ***Startrek*** exercise worked on in previous units (without specialization)

- The tables should be created.

**CREATE TABLE ACT-PER** (

cod\_actor CHAR (25) NOT NULL

nombre VARCHAR (25) NOT NULL

fecha DATE NOT NULL

nacionalidad VARCHAR(25)

cod\_per VARCHAR (25) NOT NULL

super\_per CHAR (9)

nombre\_p VARCHAR (25) NOT NULL

raza VARCHAR (20) NOT NULL

grado VARCHAR (20)

**PRIMARY KEY (**cod\_actor),

**UNIQUE** (cod\_per),

**FOREIGN KEY** (Super\_per) **REFERENCES** ACT-PER (cod\_actor));

**CREATE TABLE CAPÍTULO** (

orden INT NOT NULL

temporada INT NOT NULL

titulo VARCHAR (25) NOT NULL

fecha DATE NOT NULL

**PRIMARY KEY** (orden, temporada));

**CREATE TABLE APARECE** (

orden INT NOT NULL

temporada INT NOT NULL

cod\_actor CHAR (25) NOT NULL

**PRIMARY KEY** (orden, temporada, cod\_actor),

**FOREIGN KEY** (orden, temporada) **REFERENCES** CAPÍTULO (orden, temporada)

**FOREIGN KEY** (cod\_actor) **REFERENCES** ACT-PER (cod\_actor));

**CREATE TABLE PLANETA** (

cod\_planeta VARCHAR (20) NOT NULL

galaxia VARCHAR (20) NOT NULL

nombre VARCHAR (20) NOT NULL

**PRIMARY KEY** (cod\_planeta));

**CREATE TABLE VISITA** (

orden INT NOT NULL

temporada INT NOT NULL

cod\_planeta VARCHAR (20) NOT NULL

problema VARCHAR (25) NOT NULL

**PRIMARY KEY** (orden, temporada, cod\_planeta)

**FOREIGN KEY** (orden, temporada) **REFERENCES** CAPÍTULO (orden, temporada),

**FOREIGN KEY** (cod\_planeta) **REFERENCES** PLANETA (cod\_planeta));

**CREATE TABLE PELÍCULA** (

cod\_pelicula VARCHAR (20) NOT NULL

año INT NOT NULL

titulo VARCHAR (20) NOT NULL

director VARCHAR (20) NOT NULL

cod\_actor CHAR (25) NOT NULL

**PRIMARY KEY** (cod\_película),

**FOREIGN KEY** (cod\_actor) **REFERENCES** ACT-PER (cod\_actor));

**CREATE TABLE APARECE2** (

cod\_pelicula VARCHAR (20) NOT NULL

cod\_actor CHAR (25) NOT NULL

**PRIMARY KEY** (cod\_película, cod\_actor),

**FOREIGN KEY** (cod\_actor) **REFERENCES** ACT-PER (cod\_actor),

**FOREIGN KEY** (cod\_pelicula) **REFERENCES** PELICULA (cod\_pelicula));

3. The following modifications should be made to the ***Startrek*** database created in the previous exercise.

- Add the City column to the PERSONAJE table.

ALTER TABLE PERSONAJE ADD COLUMN City VARCHAR (12);

- Add the column Birth\_Date to the PERSONAJE table.

ALTER TABLE PERSONAJE ADD COLUMN Birth\_Date (DATE);

- Remove the column galaxia in the PLANETA table.

ALTER TABLE PLANETA DROP COLUMN galaxia CASCADE;

- Rename the columns “grado” to “categoría” in PERSONAJE table.

ALTER TABLE PERSONAJE CHANGE grado categoria VARCHAR (20);