TÖL303G Gagnasafnsfræði

Verkefni 9

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1. Yfirlit yfir vensl:

```
Stars(name, address)
                        // PK: name
Movies(title, year, length, genre)
                               // PK: title, year
Studios(name, address)
                        // PK: name
Stars-in(<u>name</u>, <u>title</u>, <u>year</u>) // PK: name, title, year; FK: name, title, year
Owns(title, year, studioName)
                               // PK: title, year, name; FK: title, year, name
Create skipanir:
CREATE TABLE Stars(
      name TEXT PRIMARY KEY NOT NULL,
      address TEXT
);
CREATE TABLE Movies(
      title TEXT NOT NULL,
      year INTEGER NOT NULL,
      length TEXT,
      genre TEXT,
      PRIMARY KEY (title, year)
CREATE TABLE Studios(
      name TEXT PRIMARY KEY NOT NULL,
      address TEXT
);
CREATE TABLE StarsIn(
      starName TEXT NOT NULL,
      movieTitle TEXT NOT NULL,
      movieYear INTEGER NOT NULL,
      PRIMARY KEY (starName, movieTitle),
      FOREIGN KEY (starName) REFERENCES Stars(name),
      FOREIGN KEY (movieTitle) REFERENCES Movies(title),
      FOREIGN KEY (movieYear) REFERENCES Movies(year)
CREATE TABLE Owns(
      movieTitle TEXT NOT NULL,
      movieYear INTEGER NOT NULL,
      studioName TEXT NOT NULL,
      PRIMARY KEY (movieTitle, movieYear, studioName),
      FOREIGN KEY (movieTitle) REFERENCES Movies(title),
```

```
FOREIGN KEY (movieYear) REFERENCES Movies(year),
         FOREIGN KEY (studioName) REFERENCES Studios(name)
   );
2. Yfirlit yfir vensl:
   Studios(name, addr) // PK: name
   Crews(number, crewChief, studioName) // PK: number, studioName; FK:
   studioName.
   Create skipanir:
   CREATE TABLE Studios(
         name TEXT PRIMARY KEY NOT NULL,
         addr TEXT
   );
   CREATE TABLE Crews(
         number INTEGER NOT NULL,
         crewChief TEXT,
         studioName NOT NULL,
         PRIMARY KEY (number, studioName),
         FOREIGN KEY (studioName) REFERENCES Studios(name)
   );
3. Yfirlit yfir vensl:
   Customers(<u>SSNo</u>, name, addr, phone)
                                        // PK: SSNo
   Flights(number, day, aircraft)
                                 // PK: number, day
   Bookings(row, seat, customerSSNo, flightNumber, flightDay)
   CustomerSSNo, flightNumber, flightDay; FK: customerSSNo, flightNumber,
   flightDay
   Create skipanir:
   CREATE TABLE Customers(
         SSNo INTEGER PRIMARY KEY NOT NULL,
         name TEXT,
         addr TEXT,
         phone INTEGER
   );
   CREATE TABLE Flights(
         number TEXT NOT NULL,
         day DATE NOT NULL,
         aircraft TEXT,
         PRIMARY KEY (number, day)
   );
```

```
CREATE TABLE Bookings(
    customerSSNo INTEGER NOT NULL,
    flightNumber TEXT NOT NULL,
    flightDay DATE NOT NULL,
    row INTEGER,
    seat TEXT,
    PRIMARY KEY (customerSSNo, flightNumber, flightDay),
    FOREIGN KEY (customerSSNo) REFERENCES Customers(SSNo),
    FOREIGN KEY (flightNumber) REFERENCES Flights(number),
    FOREIGN KEY (flightDay) REFERENCES Flights(day)
);
```