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CMPT 308

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Lab 8

1)

MovieActors

PK	FK	MID
PK	FK	PID

Movies

PK	MID
	Name
	Year
	MPAA
	DomesticSales
	ForeignSales
	DVDBluraySales

Actors

PK	FK	PID
		BirthDate
		HairColor
		EyeColor
		Height
		Weight
		FavColor
		SAGAD

MovieDirectors

PK	FK	MID
PK	FK	PID

People

PK	PID
	Name
	Address
	SpouseName

Directors

PK	FK	PID
		School
		DGAD
		FavLens

2)
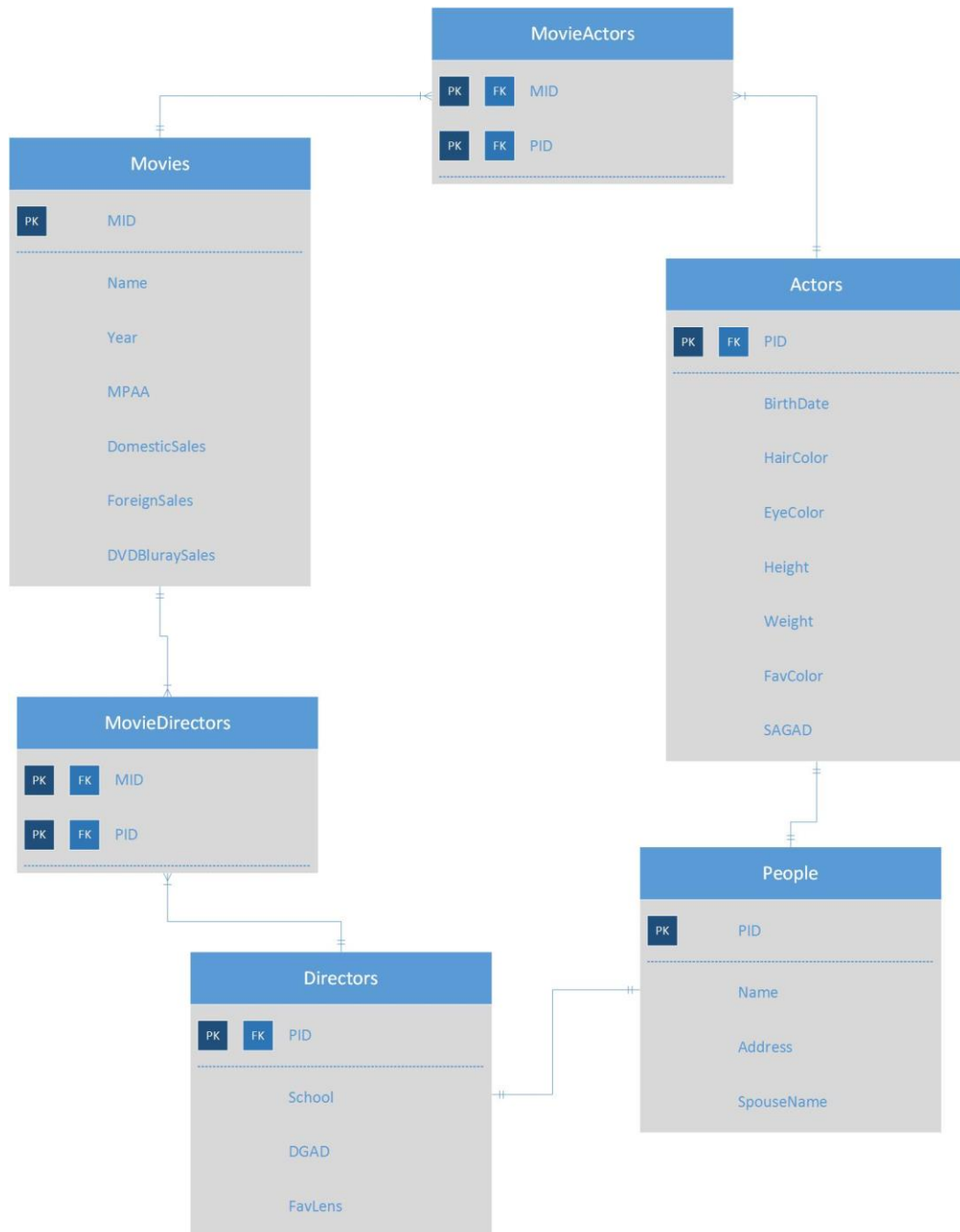
```sql
CREATE TABLE IF NOT EXISTS Movies(
      MID INT NOT NULL,
      Name TEXT,
      Year INT,
      MPAA INT,
      DomesticSales DOUBLE,
      ForeignSales DOUBLE,
      DVDBluraySales DOUBLE,
      PRIMARY KEY(MID)
);

CREATE TABLE IF NOT EXISTS People(
      PID INT NOT NULL,
      Name TEXT,
      Address TEXT,
      SpouseName TEXT,
      PRIMARY KEY(PID)
);

CREATE TABLE IF NOT EXISTS Actors(
      PID INT NOT NULL REFERENCES People(PID),
      BirthDate DATE,
      HairColor TEXT,
      EyeColor TEXT,
      Height INT,
      Weight INT,
      FavColor TEXT,
      SAGAD DATE,
      PRIMARY KEY(PID)
);

CREATE TABLE IF NOT EXISTS Directors(
      PID INT NOT NULL REFERENCES People(PID),
      School TEXT,
      DGAD DATE,
      FavLens TEXT,
      PRIMARY KEY(PID)
);

CREATE TABLE IF NOT EXISTS MovieActors(
      AID INT NOT NULL REFERENCES Movie(MID),
      PID INT NOT NULL REFERENCES People(PID),
      PRIMARY KEY(MID),
      PRIMARY KEY(PID)
);

CREATE TABLE IF NOT EXISTS MovieDirectors(
      MID INT NOT NULL REFERENCES Movie(MID),
      PID INT NOT NULL REFERENCES People(PID),
      PRIMARY KEY(MID),
      PRIMARY KEY(PID)
);
```

3)

Movies: MID |→ Name, Year, MPAA, DomesticSales, ForeignSales, DVDBluraySales

People: PID |→ Name, Address, SpouseName

Actors: PID |→ BirthDate, HairColor, EyeColor, Height, Weight, FavColor, SAGAD

Directors: PID |→ School, DGAD, FavLens

MovieActors: MID and PID are primary and foreign keys

MovieDirectors: MID and PID are primary and foreign keys

4)

```
SELECT DISTINCT Name
FROM People
WHERE PID IN(
          SELECT PID
          FROM MovieDirectors
          WHERE MID IN(
                      SELECT MID
                      FROM MovieDirectors
                      WHERE PID IN (
                                  SELECT PID
                                  FROM People
                                  WHERE Name = "Keanu Reeves")
                            )
                );
```