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/*
DBS211 Lab 6 Questions
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*/

SET AUTOCOMMIT ON;

/* Question 1.1 by Vrunda*/
CREATE TABLE l6_movies
(
    mid          INT,
    title        VARCHAR(35) NOT NULL,
    releaseyear  INT NOT NULL,
    director     INT NOT NULL,
    score        DECIMAL(3, 2) CHECK (score < 5 AND score > 0),
    PRIMARY KEY (mid)
);

/* Question 1.2 by Vrunda*/
CREATE TABLE l6_actors
(
    aid          INT,
    firstname    VARCHAR(20) NOT NULL,
    lastname     VARCHAR(30) NOT NULL,
    PRIMARY KEY (aid)
);

/* Question 1.3 by Abbas Hussein*/
CREATE TABLE l6_castings
(
    movieid INT NOT NULL,
    actorid INT NOT NULL,
    PRIMARY KEY (movieid, actorid),
    FOREIGN KEY (movieid) REFERENCES l6_movies(movieid),
    FOREIGN KEY (actorid) REFERENCES l6_actors(actorid)
);

/* Question 1.4 by Abbas Hussein*/
CREATE TABLE l6_directors
(
    directorid INT PRIMARY KEY NOT NULL UNIQUE,
    firstname  VARCHAR(20) NOT NULL,
    lastname   VARCHAR(30) NOT NULL
);

/* Question 2 by Vrunda*/
ALTER TABLE l6_movies
    ADD FOREIGN KEY (mid) REFERENCES l6_directors(directorid);

/* Question 3 by Abbas Hussein*/
ALTER TABLE l6_movies
    ADD CONSTRAINT unique_title UNIQUE (title);

-- Question 4 by Ben Liu
INSERT INTO l6_directors
    (directorid,
     firstname,
     lastname)
VALUES
    (1010, 'Rob', 'Minkoff'),
    (1020, 'Bill', 'Condon'),
    (1050, 'Josh', 'Cooley'),
    (2010, 'Brad', 'Bird'),
    (3020, 'Lake', 'Bell');

INSERT INTO l6_movies
    (movieid, title, year, director, score)
VALUES
    (100, 'The Lion King', 2019, 3020, 3.50),
    (200, 'Beauty and the Beast', 2017, 1050, 4.20),
    (300, 'Toy Story 4', 2019, 1020, 4.50),
    (400, 'Mission Impossible', 2018, 2010, 5.00),
    (500, 'The Secret Life of Pets', 2016, 1010, 3.90);

/* Question 5 by Abbas Hussein*/
-- Remove foreign key constraints
ALTER TABLE l6_movies
    DROP CONSTRAINT fk_director;

-- Remove L6_CASTINGS table
DROP TABLE l6_castings;

-- Remove other tables
DROP TABLE l6_movies;

DROP TABLE l6_directors;

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DROP TABLE 16_actors;
/*
Yes, the order of tables is important when removing because if there are foreign key constraints,
you should remove tables that have dependencies on other tables before removing the tables they depend on.
*/

/* Question 6 by Vrunda*/
CREATE TABLE employee2 AS
SELECT* FROM employees;

-- Question 7 by Ben Liu

ALTER TABLE employee2
ADD username VARCHAR(50) NULL;

/* Question 8 by Abbas Hussein*/
DELETE FROM employee2;

/*Question 9 by Vrunda*/
INSERT INTO employee2
SELECT*
FROM employees;

-- Question 10 by Ben Liu

UPDATE employee2
SET firstname = 'Ben',
    lastname = 'Liu'
WHERE employeenumber = 1002;

/* Question 11 by Abbas Hussein*/
UPDATE employee2
SET username = LOWER(SUBSTRING(firstname, 1, 1) || lastname);

/* Question 12 by Vrunda */
DELETE FROM employee2
WHERE officecode = '4';

-- Question 13 by Ben Liu

DROP TABLE employee2;
```