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Q0:

- a) ALTER TABLE Movies
ADD CONSTRAINT ProducerImp
FOREIGN KEY (ProducerC#) REFERENCES MovieExec(cert#);
- b) ALTER TABLE Movies
ADD CONSTRAINT ProducerImp
FOREIGN KEY (ProducerC#) REFERENCES MovieExec(cert#)
ON UPDATE SET NULL;
- d) ALTER TABLE StarsIn
ADD CONSTRAINT MovieAppear
FOREIGN KEY(movieTitle, movieYear) REFERENCES Movies(title, year);

Q1:

- a) ALTER TABLE Movies
CHECK (year > 1915);
- b) ALTER TABLE Movies
CHECK (length > 60 AND length < 250);
- c) ALTER TABLE Movies
CHECK (studioName = "Disney" OR studioName = "Fox" OR studioName = "MGM" OR
studioName = "Paramount");

Q2:

- a) CREATE ASSERTION shipCount
CHECK (
SELECT COUNT(*) FROM Ships <= 2
GROUP BY class)
- e) CREATE ASSERTION ship
CHECK (
SELECT name, class
FROM Ships, Classes
WHERE Ships.name=Classes.class);

Q3:

- a) CREATE TRIGGER AddShip
AFTER INSERT ON Classes *row-level trigger would execute
FOR EACH ROW once for each tuple to which an update was applied
WHEN (True)
BEGIN
 INSERT INTO Ships
 VALUES(name, class, NULL)
END;
- b) CREATE TRIGGER CheckDisplacement
AFTER INSERT ON Classes
FOR EACH ROW
WHEN (displacement > 35000)
BEGIN
 UPDATE Classes
 SET displacement = 35000
END;

Q4:

- a) CREATE VIEW RichExec AS
SELECT name, address, cert#, netWorth
WHERE networth >= 10000000
- b) CREATE VIEW StudioPres AS
SELECT name, address, cert#
FROM MovieExec, Studio
WHERE MovieExec.cert# = Studio.presC#