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Quiz 21

Show a tuple based check constraint in which all movies made before 1920 have a NULL value in the studioname attribute.

```
1 CREATE TABLE movies (
2 title char(50),
3 year int,
4 len int,
5 studioname char(50),
6 CHECK (year > 1920 or studioname = null )
```

Create an assertion that all stars must be at least 2 movies.

```
1 CREATE ASSERTION X
2 CHECK
3 (2 >= ALL (
4
      SELECT COUNT(*)
5
      FROM starsin
 6
      GROUP BY starname ) )
7
    AND (
8
     NOT EXISTS (
9
      SELECT *
10
        FROM moviestar
        WHERE name NOT IN (
11
          SELECT starname
13
          FROM starsin ) ) )
```

Quiz 21.2

Create a trigger to ensure that on insert, the average length of movies for all studios does not drop below 1000.

```
1 CREATE TRIGGER X
2 AFTER INSERT ON Movies(len)
3 REFERENCING
4 NEW TABLE AS N
5 FOR EACH STATEMENT
6 WHEN 1000 > (SELECT AVG(len) FROM movies)
7 BEGIN
8 DELETE FROM movies
9 WHERE (T, Y, L, FT, SN) IN N
10 END
```