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FOR QUESTION 1-5 CODE FOR TABLE

```
1 CREATE TABLE Warehouses (
         Code INTEGER PRIMARY KEY NOT NULL,
         Location varchar(250) NOT NULL,
 3
 4
        Capacity INTEGER NOT NULL
 5
 6
    CREATE TABLE Boxes (
 7
       Code varchar(250) PRIMARY KEY NOT NULL,
 8
         Contents varchar(250) NOT NULL,
10 Value REAL NOT NULL ,
11 Warehouse INTEGER NOT NULL,
        CONSTRAINT fk_Warehouses_Code FOREIGN KEY (Warehouse) REFERENCES Warehouses(Code)
12
13 );
       INSERT INTO Warehouses(Code, Location, Capacity) VALUES(1, 'Hyderabad', 3);
INSERT INTO Warehouses(Code, Location, Capacity) VALUES(2, 'Chennai', 4);
 14
  15
 16 INSERT INTO Warehouses(Code, Location, Capacity) VALUES(3, 'Kolkata', 7);
 17 INSERT INTO Warehouses(Code, Location, Capacity) VALUES(4, 'Mumbai', 2);
       INSERT INTO Warehouses(Code, Location, Capacity) VALUES(5, 'Delhi', 8);
 18
  19
 20 INSERT INTO Boxes(Code, Contents, Value, Warehouse) VALUES('9AB', 'Lays', 1260, 3);
  21 INSERT INTO Boxes(Code, Contents, Value, Warehouse) VALUES('1NM', 'Lays', 440,1);
 INSERT INTO Boxes(Code, Contents, Value, Warehouse) VALUES('6RT', 'Maggi', 90,4);
INSERT INTO Boxes(Code, Contents, Value, Warehouse) VALUES('7GG', 'Lays', 300,1);
INSERT INTO Boxes(Code, Contents, Value, Warehouse) VALUES('8JN', 'Maggi', 255,1);
  INSERT INTO Boxes(Code, Contents, Value, Warehouse) VALUES('8YU', 'Kurkure', 180,3);
 INSERT INTO Boxes(Code,Contents,Value,Warehouse) VALUES('9JG','Kurkure',475,2);
INSERT INTO Boxes(Code,Contents,Value,Warehouse) VALUES('4LL','Lays',360,4);
  28 INSERT INTO Boxes(Code, Contents, Value, Warehouse) VALUES('0HJ', 'Bingo', 75,1);
       INSERT INTO Boxes(Code,Contents,Value,Warehouse) VALUES('2TP','Bingo',180,2);
INSERT INTO Boxes(Code,Contents,Value,Warehouse) VALUES('5TU','KitKat',225,5);
  29
  30
 31
```

Queries

1)

SELECT * FROM Boxes
WHERE Value > 150;



2) SELECT Warehouse, AVG(Value)

FROM Boxes

GROUP BY Warehouse;



3) UPDATE Boxes SET Value = Value * 0.85;

SELECT Code, Contents, Value, Warehouse FROM Boxes;

```
</>> Code
                                                                                         Run
                                                                                                     Save
            >_ Output
9AB|Lays|1071.0|3
1NM|Lays|374.0|1
6RT|Maggi|76.5|4
7GG|Lays|255.0|1
8JN|Maggi|216.75|1
8YU|Kurkure|153.0|3
9JG|Kurkure|403.75|2
4LL|Lays|306.0|4
0HJ|Bingo|63.75|1
2TP|Bingo|153.0|2
5TU|KitKat|191.25|5
[Program exited with exit code 0]
```

```
FROM Warehouses
WHERE Capacity <
 (
  SELECT COUNT(*)
  FROM Boxes
  WHERE Warehouse = Warehouses.Code
 );
 </> Code >_ Output
                                                                Run
                                                                        Save
 [Program exited with exit code 0]
5)
DELETE FROM Boxes WHERE Warehouse IN
  SELECT Code
   FROM Warehouses
   WHERE Capacity <
    SELECT COUNT(*)
     FROM Boxes
     WHERE Warehouse = Warehouses.Code
   )
 );
 Select Code, Contents, Value, Warehouse FROM Boxes;
```

```
9AB|Lays|1260.0|3
6RT|Maggi|90.0|4
8YU|Kurkure|180.0|3
9JG|Kurkure|475.0|2
4LL|Lays|360.0|4
2TP|Bingo|180.0|2
5TU|KitKat|225.0|5

[Program exited with exit code 0]
```

FOR QUESTION 6-10 CODE FOR TABLE

```
1 CREATE TABLE Movies (
          Code INTEGER PRIMARY KEY NOT NULL,
          Title TEXT NOT NULL,
  3
  4
         Rating TEXT
  5
  6
      CREATE TABLE MovieTheaters (
  7
  8
          Code INTEGER PRIMARY KEY NOT NULL,
          Name TEXT NOT NULL,
  9
 10
         Movie INTEGER
 11
            CONSTRAINT fk_Movies_Code REFERENCES Movies(Code)
 12 );
INSERT INTO Movies(Code, Title, Rating) VALUES(1, 'Avengers', 'B');
INSERT INTO Movies(Code, Title, Rating) VALUES(2, 'The Shawshank Redemption', 'A');
INSERT INTO Movies(Code, Title, Rating) VALUES(3, 'The Dark Knight', 'A');
      INSERT INTO Movies(Code, Title, Rating) VALUES(4, 'RADHE', NULL);
17
18   INSERT INTO Movies(Code, Title, Rating) VALUES(5, 'SPIDERMAN HOMECOMING', NULL);
19
      INSERT INTO Movies(Code,Title,Rating) VALUES(6,'RACE 3','NC-17');
      INSERT INTO Movies(Code, Title, Rating) VALUES(7, 'Schindler''s List', 'A');
20
21
22
23
     INSERT INTO MovieTheaters(Code,Name,Movie) VALUES(1,'IMAX',NULL);
      INSERT INTO MovieTheaters(Code, Name, Movie) VALUES(2, 'PVR', NULL);
25
      INSERT INTO MovieTheaters(Code, Name, Movie) VALUES(3, 'Majestic', 5);
      INSERT INTO MovieTheaters(Code, Name, Movie) VALUES(4, 'MTR',6);
INSERT INTO MovieTheaters(Code, Name, Movie) VALUES(5, 'Pheonix', NULL);
INSERT INTO MovieTheaters(Code, Name, Movie) VALUES(6, 'INOX',1);
26
27
28
29
```

Queries

SELECT *

FROM MovieTheaters

WHERE Movie IS NULL;



7)

INSERT INTO Movies(Title, Rating) VALUES('One, Two, Three', NULL);

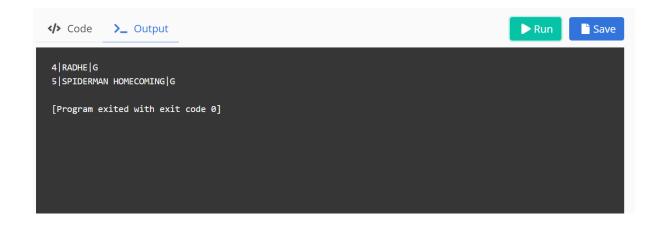
SELECT Code, Title, Rating FROM Movies;

```
| Code |
```

8)

UPDATE Movies SET Rating='G' WHERE Rating IS NULL;

SELECT Code, Title, Rating FROM Movies WHERE rating is 'G';



9)
DELETE FROM MovieTheaters WHERE Movie IN
(SELECT Code FROM Movies WHERE Rating = 'NC-17');

SELECT Code, Title , Rating FROM Movies WHERE rating is 'NC-17';

```
Code >_ Output

6|RACE 3|NC-17

[Program exited with exit code 0]
```

```
10)
SELECT Code, Title, Rating FROM Movies
WHERE Code NOT IN
(
SELECT Movie FROM MovieTheaters
WHERE Movie IS NOT NULL
);
```

