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1 #OUTER JOIN EXAMPLES
 2 #BAD Examples
 3 SELECT * FROM Movies LEFT JOIN StarsIn USING (mid) WHERE director='Christopher Nolan'
    AND sname='Tom Hardy';
 4 SELECT * FROM Movies FULL JOIN StarsIn USING (mid) WHERE director='Christopher Nolan'
    AND sname='Tom Hardy';
 5 SELECT * FROM Movies m LEFT JOIN StarsIn s ON m.mid=s.mid WHERE director='Christopher
    Nolan' AND sname='Tom Hardy';
 7 #GOOD EXAMPLE
 8 SELECT * FROM Movies m LEFT JOIN StarsIn s ON m.mid=s.mid AND sname='Tom Hardy' WHERE
    director='Christopher Nolan';
 9 #BAD EXAMPLE
10 SELECT * FROM Movies m LEFT JOIN StarsIn s ON m.mid=s.mid AND sname='Tom Hardy' JOIN
   Stars ON name=sname WHERE director='Christopher Nolan';
12 #GOOD EXAMPLE
13 SELECT * FROM Movies m LEFT JOIN StarsIn s ON m.mid=s.mid AND sname='Tom Hardy' LEFT
   JOIN Stars ON name=sname WHERE director='Christopher Nolan';
14 #BAD EXAMPLE
15 SELECT * FROM Movies m LEFT JOIN StarsIn s ON m.mid=s.mid AND sname='Tom Hardy' RIGHT
    JOIN Stars ON name=sname WHERE director='Christopher Nolan';
16 SELECT * FROM Movies m LEFT JOIN StarsIn s ON m.mid=s.mid AND sname='Tom Hardy' RIGHT
    JOIN Stars ON name=sname AND director='Christopher Nolan';
17 #GOOD Example
18 SELECT * FROM Movies m LEFT JOIN (SELECT * FROM StarsIn RIGHT JOIN Stars ON name= sname) s ON m.mid=s.mid AND s.sname='Tom Hardy' WHERE director='Christopher Nolan';
19
20 #Simulating Full Join Example
21 SELECT *
22 FROM Movies m1
23
           LEFT JOIN StarsIn s1
             ON ml.mid=sl.mid AND sl.sname = 'Tom Hardy'
24
           WHERE director = 'Christopher Nolan'
25
26 UNION
27 SELECT *
28 FROM Movies m2
29
           RIGHT JOIN StarsIn s2
           ON m2.mid=s2.mid
WHERE sname = 'Tom Hardy';
30
31
32 #Another FULL JOIN Example
33 SELECT *
34 FROM Movies m1
           LEFT JOIN StarsIn s1
35
36
             ON m1.mid=s1.mid
37
           WHERE director = 'Christopher Nolan'
38 UNION
39 SELECT *
40 FROM Movies m2
41
           RIGHT JOIN StarsIn s2
42
              ON m2.mid=s2.mid
           WHERE sname = 'Tom Hardy';
43
44
45 #Listing Teams With Wins
46 select t.id, t.name, count(g.date) as wins from Game g RIGHT JOIN Team t ON t.id = g.
   home_team_id and g.score_home > score_away or t.id = g.away_team_id and g.score away
   > g.score home group by t.id;
47 #Bad Examples
48 SELECT id, name, MAX(wins) FROM (select t.id, t.name, count(g.date) as wins from Game
    g RIGHT JOIN Team t ON t.id = g.home_team_id and g.score_home > score_away or t.id =
    g.away_team_id and g.score_away > g.score_home group by t.id) as w;
49 SELECT id, name, MIN(wins) FROM (select t.id, t.name, count(g.date) as wins from Game g RIGHT JOIN Team t ON t.id = g.home_team_id and g.score_home > score_away or t.id =
    g.away team id and g.score away > g.score home group by t.id) as w;
50
51 #CREATE VIEW EXAMPLE
52 CREATE OR REPLACE View TeamWins AS select t.id, t.name, count(g.date) as wins from Game g RIGHT JOIN Team t ON t.id = g.home_team_id and g.score_home > score_away or t.
   id = g.away team id and g.score away > g.score home group by t.id;
54 #Finding the chamipon team without View example
55 SELECT id, name FROM Team WHERE id not in (select a.id from (select t.id, t.name, count(g.date) as c from Game g RIGHT JOIN Team t ON t.id = g.home_team_id and g.
   score_home > score_away or t.id = g.away_team_id and g.score_away > g.score_home
   group by t.id) as a JOIN (select t.id, t.name, count(g.date) as c from Game g RIGHT
   JOIN Team t ON t.id = g.home_team_id and g.score_home > score_away or t.id = g.
away_team_id and g.score_away > g.score_home group by t.id) as b ON a.c < b.c);
56 #Finding the chamipon team with View example</pre>
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57 SELECT id, name FROM Team WHERE id not in (SELECT w1.id FROM TeamWins w1, TeamWins
   w2 WHERE w1.wins < w2.wins);
58 SELECT * FROM mTeamWins WHERE NOT wins < ANY (SELECT wins FROM mTeamWins);
59 SELECT * FROM mTeamWins w WHERE NOT EXISTS (SELECT wins FROM mTeamWins WHERE wins >
   w.wins);
60
61 #FINDING THE TEAM AT THE BOTTOM
62 SELECT * FROM mTeamWins WHERE wins <= ALL (SELECT wins FROM mTeamWins);
63 SELECT * FROM mTeamWins w WHERE NOT EXISTS (SELECT wins FROM mTeamWins WHERE wins <
   w.wins);
64
65 #TEMPORARY TABLE Creation
66 CREATE TEMPORARY TABLE TempWins select t.id, t.name, count(g.date) as wins from Game
   g RIGHT JOIN Team t ON t.id = g.home_team_id and g.score_home > score_away or t.id
   = g.away_team_id and g.score_away > g.score_home group by t.id;
67
68 #BAD TEMP TABLE Usage Example
69 SELECT id, name FROM Team WHERE id not in (SELECT wl.id FROM TempWins wl, TempWins
   w2 WHERE w1.wins < w2.wins);
71 #CTE EXAMPLE BUT NOT SUPPORTED BY MYSQL v5
72 WITH cte_wins AS (select t.id, t.name, count(g.date) as wins from Game g RIGHT JOIN
Team t ON t.id = g.home_team_id and g.score_home > score_away or t.id = g.
away_team_id and g.score_away > g.score_home group by t.id)
73 SELECT id, name FROM Team WHERE id not in (SELECT w1.id FROM cte_wins w1, cte_wins
   w2 WHERE w1.wins < w2.wins);
75 #CREATE TABLE FROM Query Result Example
76 CREATE TABLE mTeamWins select t.id, t.name, count(g.date) as wins from Game g RIGHT
   JOIN Team t ON t.id = g.home team id and g.score home > score away or t.id = g.
   away_team_id and g.score_away > g.score_home group by t.id;
78 #INSERT FROM SUBQUERY EXAMPLE
79 INSERT INTO mTeamWins select t.id, t.name, count(g.date) as wins from Game g RIGHT JOIN Team t ON t.id = g.home_team_id and g.score_home > score_away or t.id = g.
   away team id and g.score away > g.score home group by t.id;
81 #UPDATE WITH SUBQUERY EXAMPLES
82 UPDATE mTeamWins SET wins = (SELECT count(g.date) from Game g JOIN Team t ON t.id =
   1 and g.score home > score away or t.id = 1 and g.score away > g.score home) WHERE
   id = 1;
83 UPDATE mTeamWins SET wins = 9 WHERE id in (SELECT id FROM Team WHERE id not in (
   SELECT w1.id FROM TeamWins w1, TeamWins w2 WHERE w1.wins < w2.wins));
84 UPDATE mTeamWins SET wins = (SELECT wins FROM TeamWins WHERE id = (SELECT id FROM Team WHERE id not in (SELECT w1.id FROM TeamWins w1, TeamWins w2 WHERE w1.wins < w2.
   wins))) WHERE id in (SELECT id FROM Team WHERE id not in (SELECT w1.id FROM TeamWins
    w1, TeamWins w2 WHERE w1.wins < w2.wins));
86 #DELETE WITH SUBQUERY EXAMPLE
87 DELETE FROM mTeamWins
88 WHERE id =
    (SELECT id FROM Team WHERE id not in (SELECT w1.id FROM TeamWins w1, TeamWins w2
   WHERE w1.wins < w2.wins));
90
91
92
```