SELECT \* FROM BarBeerDrinker.BAR

LEFT JOIN BarBeerDrinker.DRINKER ON BAR.State = DRINKER.State

UNION

SELECT \* FROM BarBeerDrinker.BAR

RIGHT JOIN BarBeerDrinker.DRINKER ON BAR.State = DRINKER.State

GROUP BY BAR.State

酒吧和drinker同在一个州

Pattern 2: Drinkers cannot frequent bars in different state.

Query:

CREATE table Pattern2

SELECT Frequent.Name, Frequent.Bar, Frequent.License, DRINKER.State AS DrinkerState, BAR.State AS BarState

FROM BarBeerDrinker.Frequent

LEFT JOIN BarBeerDrinker.DRINKER ON Frequent.Name = DRINKER.Name

LEFT JOIN BarBeerDrinker.BAR ON Frequent.Bar = BAR.Bar;

After Left Join table Frequent with table Drinker and table Bar, we have another new table called Pattern2, which will be saved in our database. But this table contains some drinker that doesn’t frequent any bars.

So I need to delete those drinker from this new table.

Query:

DELETE

FROM BarBeerDrinker.Pattern2

WHERE BarState is null;

SELECT \* FROM BarBeerDrinker.Pattern2 p1,BarBeerDrinker.Pattern2 p2

WHERE p1.Name = p2.Name AND p1.DrinkerState<>p2.BarState;

SELECT DISTINCT(Frequent.Name), Frequent.Bar, Frequent.License, DRINKER.State AS DrinkerState, BAR.State AS BarState

FROM BarBeerDrinker.Frequent

LEFT JOIN BarBeerDrinker.DRINKER ON Frequent.Name = DRINKER.Name

LEFT JOIN BarBeerDrinker.BAR ON Frequent.Bar = BAR.Bar

GROUP BY Frequent.Name;