#Abhishek Prajapati
#CS336 HW 1

#Query 1 - Bars which sell Michelob Amber Bock or Budweiser
select bar
from BarBeerDrinker.sells
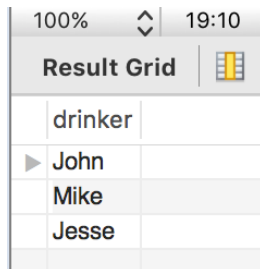where beer = 'Michelob Amber Bock' OR beer = 'Budweiser';

bar
Britannia Arms
Cabana
Caravan
Club 175
Coconut Willie's Cocktail Lounge
Gecko Grill
Giza Hookah Lounge
Seven Bamboo
The Blank Club
The Shark and Rose
The B-Hive

#Query 2 - Drinkers who like some beers other than Budweiser (they do not have to like Budweiser)
select distinct drinker
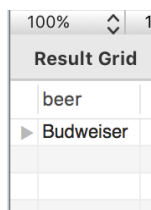from BarBeerDrinker.likes
where beer <> 'Budwiser';

drinker
John
Mike
Jesse

#Query 3 - Beers other than Hefeweizen which are served by Gecko Grill bar
select beer
from BarBeerDrinker.sells
where bar = 'Gecko Grill' AND beer <> 'Hefeweizen';

beer
Budweiser

#Query 4 - Bars who serve some beers which John likes
select distinct bar
from BarBeerDrinker.sells S
join (select beer from BarBeerDrinker.likes where drinker = 'john')J
on S.beer = J.beer;
#select distinct bar from BarBeerDrinker.sells, BarBeerDrinker.likes where (likes.drinker = 'John'
AND sells.beer = likes.beer);

100%	17:23	
Result Grid	Filter Rov	
bar		
▶ Britannia Arms		
Cabana		
Caravan		
Club 175		
Coconut Willie's Cocktail Lounge		
Gecko Grill		
Giza Hookah Lounge		
Seven Bamboo		
The Blank Club		
The Shark and Rose		
Blue Tattoo		
The Backbeat		

#Query 5 - Drinkers who frequent bars which serve Original Premium Lager Dog
select distinct
        drinker
from
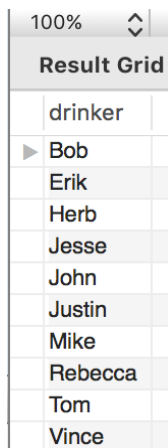   BarBeerDrinker.frequents S
join
        (select bar from BarBeerDrinker.sells where beer = 'Original Premium Lager Dog')J
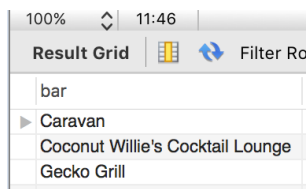on
        S.bar = J.bar;

100%	
Result Grid	
drinker	
▶ Bob	
Erik	
Herb	
Jesse	
John	
Justin	
Mike	
Rebecca	
Tom	
Vince	

#Query 6 - Bars which are frequented by John or Rebecca but not by both of them
select
     f.bar
from
     BarBeerDrinker.frequents f
where
     (drinker = 'John' OR drinker = 'Rebecca')
        AND NOT EXISTS
           (select f1.bar
               from BarBeerDrinker.frequents f1, BarBeerDrinker.frequents f2
                 where
                 (f1.drinker = 'john' AND f2.drinker = 'Rebecca') AND f.bar
= f1.bar AND f.bar = f2.bar);

bar
Caravan
Coconut Willie's Cocktail Lounge
Gecko Grill

#Query 7 - Drinkers who frequent at least three bars
select distinct
     drinker
from
     BarBeerDrinker.frequents d
where exists
     (select distinct bar from BarBeerDrinker.frequents where drinker = d.drinker
        HAVING COUNT(distinct bar) >= 3);

drinker
Mike
Rebecca

#Query 8 - Drinkers who frequent bars which sell some beer they like
select distinct f1.drinker
from BarBeerDrinker.frequents f1, BarBeerDrinker.likes l1, BarBeerDrinker.sells s1
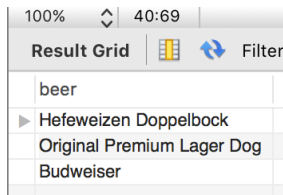where (f1.drinker = l1.drinker) and f1.bar = s1.bar and l1.beer = s1.beer;

drinker
John
Mike
Jesse

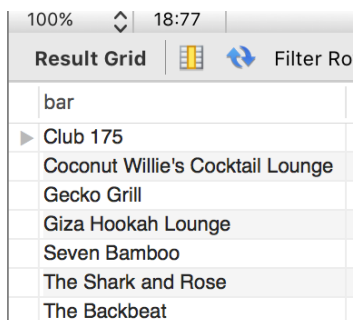#Query 9 - Beers which are served by bars which John frequents
select distinct
        beer
from
        BarBeerDrinker.sells S
join
        (select bar from BarBeerDrinker.frequents where drinker = 'John')J
on
        S.bar = J.bar;

100%	40:69	

Result Grid | Filter

beer
▶ Hefeweizen Doppelbock
Original Premium Lager Dog
Budweiser

#Query 10 - Bars which serve some beers which John or Rebecca like and which are cheaper than $5
select distinct
        bar
from
        BarBeerDrinker.sells S
join
        (select beer from BarBeerDrinker.likes where (drinker = 'john' OR drinker = 'Rebecca'))J
on
        S.beer = J.beer
where price < 5;

100%	18:77	

Result Grid | Filter Ro

bar
▶ Club 175
Coconut Willie's Cocktail Lounge
Gecko Grill
Giza Hookah Lounge
Seven Bamboo
The Shark and Rose
The Backbeat

#Query 11 - Bars which serve some beers which Mike likes or which John likes
select distinct

```
        bar
from
        BarBeerDrinker.sells S
join
        ( select beer from BarBeerDrinker.likes where (drinker = 'john' OR drinker = 'Mike'))J
on
        S.beer = J.beer;
```

bar
▶ Britannia Arms
Cabana
Caravan
Club 175
Coconut Willie's Cocktail Lounge
Gecko Grill
Giza Hookah Lounge
Seven Bamboo
The Blank Club
The Shark and Rose
A.P. Stump's
Hedley Club
Blue Tattoo
The Backbeat
Blue Angel

#Query 12 - Drinkers who like both Hefeweizen and Killian's

```
select
        drinker
from
        BarBeerDrinker.likes
where
        beer = 'Hefeweizen' AND beer = ('Killian''s');
```

drinker

#Query 13 - List all bars, beers they sell and beer prices in euros
SELECT * FROM BarBeerDrinker.sells ;
select sells.bar, sells.beer, sells.price * 0.89 AS price_EUR FROM BarBeerDrinker.sells ;

bar	beer	price_EUR
▶ A.P. Stump's	Hefeweizen	5.3400
Blue Angel	Hefeweizen Doppelbock	4.8950
Blue Angel	Original Premium Lager Dog	5.5625
Blue Tattoo	Killian's	5.3400
Britannia Arms	Budweiser	5.7850
Cabana	Budweiser	4.4500
Caravan	Budweiser	4.8950
Caravan	Original Premium Lager Dog	3.1150
Club 175	Budweiser	4.0050
Coconut Willie's Cocktail Lounge	Budweiser	2.8925
Eulipia	Hefeweizen Doppelbock	4.0050
Gecko Grill	Budweiser	2.6700
Giza Hookah Lounge	Budweiser	2.8925
Giza Hookah Lounge	Stolichnaya Citrona	5.3400
Hedley Club	Hefeweizen	7.1200
Seven Bamboo	Budweiser	2.2250
The B-Hive	Michelob Amber Bock	4.4500
The Backbeat	Killian's	3.1150
The Blank Club	Budweiser	4.8950
The Shark and Rose	Budweiser	4.0050
The Shark and Rose	Original Premium Lager Dog	4.8950

#Query 14 - Bars with names containing "The"
select
        bars.name
from
        BarBeerDrinker.bars
where
        bars.name LIKE '%The%';

Result Grid

name
▶ The B-Hive
The Backbeat
The Blank Club
The Shark and Rose
NULL

#Query 15 - Drinkers who like Killian's and who also frequent Gecko Grill
select f1.drinker from BarBeerDrinker.frequents f1, BarBeerDrinker.likes l1
where f1.drinker = l1.drinker and l1.beer = 'Killian''s' and f1.bar = 'Gecko Grill';

Result Grid

drinker