Pig Scripts

1. **Finding out if given a zip code (75087) which hospitals have emergency services:**

HMaster = LOAD '/user/hive/warehouse/healthq.db/hospitalmaster' USING PigStorage(',') AS (providerID:chararray, hospitalName:chararray,streetName:chararray,city:chararray,state:chararray,zipcode:chararray,countyName:chararray,phoneNumber:chararray,hospitalType:chararray,hospitalownership:chararray,emergencyServices:chararray);  
zipResult = FILTER HMaster by zipcode =='75087' AND emergencyServices == 'Yes';   
dump zipResult;

***Output:*** (670097,BAYLOR EMERGENCY MEDICAL CENTER,1975 ALPHA STE 100,ROCKWALL,TX,75087,ROCKWALL,[2142946200](tel:2142946200),Acute Care Hospitals,Proprietary,Yes)

1. **Find hospitals that has more than 500 cardiovascular outpatient procedures**

HOPVolume= LOAD '/user/hive/warehouse/healthq.db/hospitalopvolume' USING PigStorage(',') AS (providerID:chararray,hospitalName:chararray,measureId:chararray,gastrointestinal:int,eye:int,nervousSystem:int,musculoskeletal:int,skin:int,genitourinary:int,cardiovascular:int, startDate:chararray, endDate:chararray);  
A = FILTER HOPVolume by cardiovascular > 500;  
dump A;  
***Output:*** it lists all the hospitals

1. **Find a hospital given a zipcode that has more than 50 eye op procedures at a given time.**

HOPVolume= LOAD '/user/hive/warehouse/healthq.db/hospitalopvolume' USING PigStorage(',') AS (providerID:chararray,hospitalName:chararray,measureId:chararray,gastrointestinal:int,eye:int,nervousSystem:int,musculoskeletal:int,skin:int,genitourinary:int,cardiovascular:int, startDate:chararray, endDate:chararray);  
A = FILTER HOPVolume by eye > 1000 AND providerID  == '670076';  
dump A;

***Output:*** (670076,HERITAGE PARK SURGICAL HOSPITAL,OP-26,3665,3507,2594,766,28,38,88,1/1/2013,12/31/2013)

1. **Join HMaster and Prodecure Volume table and get data for the hospital with a given zipcode and during first quarter of 2013 (OP-26)**

HMaster = LOAD '/user/hive/warehouse/healthq.db/hospitalmaster' USING PigStorage(',') AS (providerID:chararray, hospitalName:chararray,streetName:chararray,city:chararray,state:chararray,zipcode:chararray,countyName:chararray,phoneNumber:chararray,hospitalType:chararray,hospitalownership:chararray,emergencyServices:chararray);  
  HOPVolume= LOAD '/user/hive/warehouse/healthq.db/hospitalopvolume' USING PigStorage(',') AS (providerID:chararray,hospitalName:chararray,measureId:chararray,gastrointestinal:int,eye:int,nervousSystem:int,musculoskeletal:int,skin:int,genitourinary:int,cardiovascular:int, startDate:chararray, endDate:chararray);  
  opVolumeMaster = JOIN HMaster by providerID, HOPVolume by providerID;  
A = FILTER opVolumeMaster by zipcode == '75087' AND measureId == 'OP-26' ;  
dump A;

***Output:*** (670097,BAYLOR EMERGENCY MEDICAL CENTER,1975 ALPHA STE 100,ROCKWALL,TX,75087,ROCKWALL,[2142946200](tel:2142946200),Acute Care Hospitals,Proprietary,Yes,670097,BAYLOR EMERGENCY MEDICAL CENTER,OP-26,,,,,,,,1/1/2013,12/31/2013)

1. **Retrieving hospitals based on the zipcode.**

HMaster = LOAD '/user/hive/warehouse/healthq.db/hospitalmaster' USING PigStorage(',') AS (providerID:chararray, hospitalName:chararray,streetName:chararray,city:chararray,state:chararray,zipcode:chararray,countyName:chararray,phoneNumber:chararray,hospitalType:chararray,hospitalownership:chararray,emergencyServices:chararray);  
HOPVolume= LOAD '/user/hive/warehouse/healthq.db/hospitalopvolume' USING PigStorage(',') AS (providerID:chararray,hospitalName:chararray,measureId:chararray,gastrointestinal:int,eye:int,nervousSystem:int,musculoskeletal:int,skin:int,genitourinary:int,cardiovascular:int, startDate:chararray, endDate:chararray);

opVolumeMaster = JOIN HMaster by providerID, HOPVolume by providerID;

A = FILTER opVolumeMaster by zipcode == '75087';  
dump A;

***Output:*** (670097,BAYLOR EMERGENCY MEDICAL CENTER,1975 ALPHA STE 100,ROCKWALL,TX,75087,ROCKWALL,[2142946200](tel:2142946200),Acute Care Hospitals,Proprietary,Yes,670097,BAYLOR EMERGENCY MEDICAL CENTER,OP-26,,,,,,,,1/1/2013,12/31/2013)

B  = FILTER opVolumeMaster by zipcode == '91911';  
dump B;

***Output:*** (50222,SHARP CHULA VISTA MEDICAL CENTER,751 MEDICAL CENTER COURT,CHULA VISTA,CA,91911,SAN DIEGO,[6195025800](tel:6195025800),Acute Care Hospitals,Proprietary,Yes,50222,SHARP CHULA VISTA MEDICAL CENTER,OP-26,935,904,71,167,48,131,365,1/1/2013,12/31/2013)

1. **Get the score and comparedToNational ratings for a provider ID**

HMaster = LOAD '/user/hive/warehouse/healthq.db/hospitalmaster' USING PigStorage(',') AS (providerID:chararray, hospitalName:chararray,streetName:chararray,city:chararray,state:chararray,zipcode:chararray,countyName:chararray,phoneNumber:chararray,hospitalType:chararray,hospitalownership:chararray,emergencyServices:chararray);  
HCompare= LOAD '/user/hive/warehouse/healthq.db/hospitalcompare' USING PigStorage(',') AS (providerID:chararray,hospitalName:chararray,streetName:chararray, city:chararray, state:chararray, zipcode:chararray, countyName:chararray,measureName:chararray,measureId:chararray,comparedToNational:chararray,score:chararray, footnote:chararray,measureStartDate:chararray, measureEndDate:chararray);  
compareMasterResult = JOIN HCompare by providerID, HMaster by providerID ;

***Output:***