**Part1**

**1900**

var = Load '/home/cloudera/Desktop/part1.csv' using PigStorage(',') as (Date:chararray,name:chararray,address1:chararray,address2:chararray,address3:chararray,address4:chararray,address5:chararray,SIC1:chararray,SIC2:chararray,SIC3:chararray,SIC4:chararray);

filluk1 = filter var by (SIC1 == '05101 - Deep coal mines' or SIC2 == '05101 - Deep coal mines' or SIC3 == '05101 - Deep coal mines' or SIC4 == '05101 - Deep coal mines') and (address1 == 'UNITED KINGDOM' or address2 == 'UNITED KINGDOM' or address3 == 'UNITED KINGDOM' or address4 == 'UNITED KINGDOM' or address5 == 'UNITED KINGDOM');

convertuk1 = foreach filluk1 generate ToDate(Date, 'dd-mm-yyyy') as (ukDate:datetime);

fillukdate = filter convertuk1 by ukDate >= (datetime)ToDate('1900-01-01', 'yyyy-mm-dd');

counteruk = foreach (group fillukdate all) generate COUNT(fillukdate);

dump counteruk;

filluk2 = filter var by (SIC1 == '05102 - Open cast coal working' or SIC2 == '05102 - Open cast coal working' or SIC3 == '05102 - Open cast coal working' or SIC4 == '05102 - Open cast coal working') and (address1 == 'UNITED KINGDOM' or address2 == 'UNITED KINGDOM' or address3 == 'UNITED KINGDOM' or address4 == 'UNITED KINGDOM' or address5 == 'UNITED KINGDOM');

convertuk2 = foreach filluk2 generate ToDate(Date, 'dd-mm-yyyy') as (ukDate:datetime);

fillukdate2 = filter convertuk2 by ukDate >= (datetime)ToDate('1900-01-01', 'yyyy-mm-dd');

counteruk2 = foreach (group fillukdate2 all) generate COUNT(fillukdate2);

dump counteruk2;

filluk3 = filter var by (SIC1 == '06100 - Extraction of crude petroleum' or SIC2 == '06100 - Extraction of crude petroleum' or SIC3 == '06100 - Extraction of crude petroleum' or SIC4 == '06100 - Extraction of crude petroleum') and (address1 == 'UNITED KINGDOM' or address2 == 'UNITED KINGDOM' or address3 == 'UNITED KINGDOM' or address4 == 'UNITED KINGDOM' or address5 == 'UNITED KINGDOM');

convertuk3 = foreach filluk3 generate ToDate(Date, 'dd-mm-yyyy') as (ukDate:datetime);

fillukdate3 = filter convertuk3 by ukDate >= (datetime)ToDate('1900-01-01', 'yyyy-mm-dd');

counteruk3 = foreach (group fillukdate3 all) generate COUNT(fillukdate3);

dump counteruk3;

filluk4 = filter var by (SIC1 == '06200 - Extraction of natural gas' or SIC2 == '06200 - Extraction of natural gas' or SIC3 == '06200 - Extraction of natural gas' or SIC4 == '06200 - Extraction of natural gas') and (address1 == 'UNITED KINGDOM' or address2 == 'UNITED KINGDOM' or address3 == 'UNITED KINGDOM' or address4 == 'UNITED KINGDOM' or address5 == 'UNITED KINGDOM');

convertuk4 = foreach filluk4 generate ToDate(Date, 'dd-mm-yyyy') as (ukDate:datetime);

fillukdate4 = filter convertuk4 by ukDate >= (datetime)ToDate('1900-01-01', 'yyyy-mm-dd');

counteruk4 = foreach (group fillukdate4 all) generate COUNT(fillukdate4);

dump counteruk4;

filluk5 = filter var by (SIC1 == '07210 - Mining of uranium and thorium ores' or SIC2 == '07210 - Mining of uranium and thorium ores' or SIC3 == '07210 - Mining of uranium and thorium ores' or SIC4 == '07210 - Mining of uranium and thorium ores') and (address1 == 'UNITED KINGDOM' or address2 == 'UNITED KINGDOM' or address3 == 'UNITED KINGDOM' or address4 == 'UNITED KINGDOM' or address5 == 'UNITED KINGDOM');

convertuk5 = foreach filluk5 generate ToDate(Date, 'dd-mm-yyyy') as (ukDate:datetime);

fillukdate5 = filter convertuk5 by ukDate >= (datetime)ToDate('1900-01-01', 'yyyy-mm-dd');

counteruk5 = foreach (group fillukdate5 all) generate COUNT(fillukdate5);

dump counteruk5;

filluk6 = filter var by (SIC1 == '09100 - Support activities for petroleum and natural gas extraction' or SIC2 == '09100 - Support activities for petroleum and natural gas extraction' or SIC3 == '09100 - Support activities for petroleum and natural gas extraction' or SIC4 == '09100 - Support activities for petroleum and natural gas extraction') and (address1 == 'UNITED KINGDOM' or address2 == 'UNITED KINGDOM' or address3 == 'UNITED KINGDOM' or address4 == 'UNITED KINGDOM' or address5 == 'UNITED KINGDOM');

convertuk6 = foreach filluk6 generate ToDate(Date, 'dd-mm-yyyy') as (ukDate:datetime);

fillukdate6 = filter convertuk6 by ukDate >= (datetime)ToDate('1900-01-01', 'yyyy-mm-dd');

counteruk6 = foreach (group fillukdate6 all) generate COUNT(fillukdate6);

dump counteruk6;

filluk7 = filter var by (SIC1 == '20110 - Manufacture of industrial gases' or SIC2 == '20110 - Manufacture of industrial gases' or SIC3 == '20110 - Manufacture of industrial gases' or SIC4 == '20110 - Manufacture of industrial gases') and (address1 == 'UNITED KINGDOM' or address2 == 'UNITED KINGDOM' or address3 == 'UNITED KINGDOM' or address4 == 'UNITED KINGDOM' or address5 == 'UNITED KINGDOM');

convertuk7 = foreach filluk7 generate ToDate(Date, 'dd-mm-yyyy') as (ukDate:datetime);

fillukdate7 = filter convertuk7 by ukDate >= (datetime)ToDate('1900-01-01', 'yyyy-mm-dd');

counteruk7 = foreach (group fillukdate7 all) generate COUNT(fillukdate7);

dump counteruk7;

filluk8 = filter var by (SIC1 == '24460 - Processing of nuclear fuel' or SIC2 == '24460 - Processing of nuclear fuel' or SIC3 == '24460 - Processing of nuclear fuel' or SIC4 == '24460 - Processing of nuclear fuel') and (address1 == 'UNITED KINGDOM' or address2 == 'UNITED KINGDOM' or address3 == 'UNITED KINGDOM' or address4 == 'UNITED KINGDOM' or address5 == 'UNITED KINGDOM');

convertuk8 = foreach filluk8 generate ToDate(Date, 'dd-mm-yyyy') as (ukDate:datetime);

fillukdate8 = filter convertuk8 by ukDate >= (datetime)ToDate('1900-01-01', 'yyyy-mm-dd');

counteruk8 = foreach (group fillukdate8 all) generate COUNT(fillukdate8);

dump counteruk8;

filluk9 = filter var by (SIC1 == '46711 - Wholesale of petroleum and petroleum products' or SIC2 == '46711 - Wholesale of petroleum and petroleum products' or SIC3 == '46711 - Wholesale of petroleum and petroleum products' or SIC4 == '46711 - Wholesale of petroleum and petroleum products') and (address1 == 'UNITED KINGDOM' or address2 == 'UNITED KINGDOM' or address3 == 'UNITED KINGDOM' or address4 == 'UNITED KINGDOM' or address5 == 'UNITED KINGDOM');

convertuk9 = foreach filluk9 generate ToDate(Date, 'dd-mm-yyyy') as (ukDate:datetime);

fillukdate9 = filter convertuk9 by ukDate >= (datetime)ToDate('1900-01-01', 'yyyy-mm-dd');

counteruk9 = foreach (group fillukdate9 all) generate COUNT(fillukdate9);

dump counteruk9;