

Procedure to run the code.

File contains below items

2 Datasets

Predict1.csv

Passenger1.csv

3 Java Code

Each java code will give rise to different output for our use cases.


IpJoin – This outputs Overall ICT value and All direction population

IpJoin1 – This outputs Ireland Employment value and Incoming Population of Ireland





IpJoin2 – This outputs UK's GVA value vs Ireland outgoing people

These 3 java class are ran separately with single jar file. Output will be produced as below.

You will get these 3 files after successful execution.

	IpJoin-out-emp	11-12-2021 02:12	File folder
	IpJoin-out-gva	11-12-2021 02:20	File folder
	IpJoin-out-overall	11-12-2021 02:12	File folder

The following are output of each files respectively which are taken out from the Mapreduce Output.

File Name	Date Modified	Type	Size
 ._SUCCESS.crc	11-12-2021 02:12	CRC File	1 KB
 .part-r-00000.crc	11-12-2021 02:12	CRC File	1 KB
 ._SUCCESS	11-12-2021 02:12	File	0 KB
 .part-r-00000	11-12-2021 02:12	File	1 KB

part-r-00000 - Notepad

File Edit Format View Help

```
2006 Ireland,5375.78 10921586,Inward
2007 Ireland,5581.11 11830328,Inward
2008 Ireland,5677.63 12024647,Inward
2009 Ireland,5439.03 10615458,Inward
2010 Ireland,5110.42 9678753,Inward
2011 Ireland,5064.43 9952101,Inward
2012 Ireland,5068.98 10147935,Inward
2013 Ireland,5207.67 10631713,Inward
2014 Ireland,5353.29 11317073,Inward
2015 Ireland,5521.25 12803842,Inward
2016 Ireland,5717.01 14124818,Inward
2017 Ireland,5932.92 14956529,Inward
2018 Ireland,6071.37 15844442,Inward
2019 Ireland,631.42 16557976,Inward
2020 Ireland,663.88 3564009,Inward
Year Ireland,0.00 0,Inward
```

This PC > Documents > CollegeProject > IpJoin-out-gva

Name	Date modified	Type	Size
._SUCCESS.crc	11-12-2021 02:20	CRC File	1 KB
.part-r-00000.crc	11-12-2021 02:20	CRC File	1 KB
._SUCCESS	11-12-2021 02:20	File	0 KB
part-r-00000	11-12-2021 02:20	File	1 KB

part-r-00000 - Notepad

File Edit Format View Help

```
2006 United Kingdom,10154058.00 10932934,Outward
2007 United Kingdom,10603447.00 11810329,Outward
2008 United Kingdom,10402945.00 12070362,Outward
2009 United Kingdom,9467056.00 10636782,Outward
2010 United Kingdom,10044859.00 9710716,Outward
2011 United Kingdom,10222870.00 9996630,Outward
2012 United Kingdom,10908423.00 10166000,Outward
2013 United Kingdom,10972167.00 10647179,Outward
2014 United Kingdom,11708823.00 11329398,Outward
2015 United Kingdom,12868445.00 12832637,Outward
2016 United Kingdom,12485798.00 14180797,Outward
2017 United Kingdom,12466469.00 14985718,Outward
2018 United Kingdom,12787317.00 15895746,Outward
2019 United Kingdom,1646497.13 16597159,Outward
2020 United Kingdom,1602492.25 3518498,Outward
Year United Kingdom,0.00 0,Outward
```

This PC > Documents > CollegeProject > IpJoin-out-overall

Name	Date modified	Type	Size
._SUCCESS.crc	11-12-2021 02:12	CRC File	1 KB
.part-r-00000.crc	11-12-2021 02:12	CRC File	1 KB
._SUCCESS	11-12-2021 02:12	File	0 KB
part-r-00000	11-12-2021 02:12	File	2 KB

part-r-00000 - Notepad

File Edit Format View Help

```
2006 European Union - 27 countries,159994768.00 21854520,All directions
2007 European Union - 27 countries,170529488.00 23640657,All directions
2008 European Union - 27 countries,182481264.00 24094553,All directions
2009 European Union - 27 countries,170087824.00 21252240,All directions
2010 European Union - 27 countries,178216176.00 19389469,All directions
2011 European Union - 27 countries,185033168.00 19948731,All directions
2012 European Union - 27 countries,186099808.00 20313935,All directions
2013 European Union - 27 countries,187818512.00 21278892,All directions
2014 European Union - 27 countries,191649280.00 22646471,All directions
2015 European Union - 27 countries,199935712.00 25636479,All directions
2016 European Union - 27 countries,204896592.00 28305615,All directions
2017 European Union - 27 countries,213913008.00 29942247,All directions
2018 European Union - 27 countries,221476368.00 31740188,All directions
2019 European Union - 27 countries,8164441.00 33155135,All directions
2020 European Union - 27 countries,8152395.00 7082507,All directions
Year European Union - 27 countries,0.00 0,All directions
```

These 3 text files are then merged into the single csv file to get the proper visualization and correlation of our 4 insights.

Year	Overall ICT value of Europe	All Direction Population Ireland	UK GVA value	Ireland Outward	Ireland EMP value	Ireland Inward
2006	159994768	21854520	10154058	10932934	5375.78	10921586
2007	170529488	23640657	10603447	11810329	5581.11	11830328
2008	182481264	24094553	10402945	12070362	5677.63	12024647
2009	170087824	21252240	9467056	10636782	5439.03	10615458
2010	178216176	19389469	10044859	9710716	5110.42	9678753
2011	185033168	19948731	10222870	9996630	5064.43	9952101
2012	186099808	20313935	10908423	10166000	5068.98	10147935
2013	187818512	21278892	10972167	10647179	5207.67	10631713
2014	191649280	22646471	11708823	11329398	5353.29	11317073
2015	199935712	25636479	12868445	12832637	5521.25	12803842
2016	204896592	28305615	12485798	14180797	5717.01	14124818
2017	213913008	29942247	12466469	14985718	5932.92	14956529
2018	221476368	31740188	12787317	15895746	6071.37	15844442
2019	8164441	33155135	1646497.13	16597159	631.42	16557976
2020	8152395	7082507	1602492.25	3518498	663.88	3564009