PES UNIVERSITY
(Established under Karnataka Act No. 16 of 2013)
100-ft Ring Road, Bengaluru – 560 085, Karnataka, India

A Project Report
on

‘Data Visualization Using Tableau’

Submitted in fulfillment of the requirements for the project (UE20CS906)

Submitted by

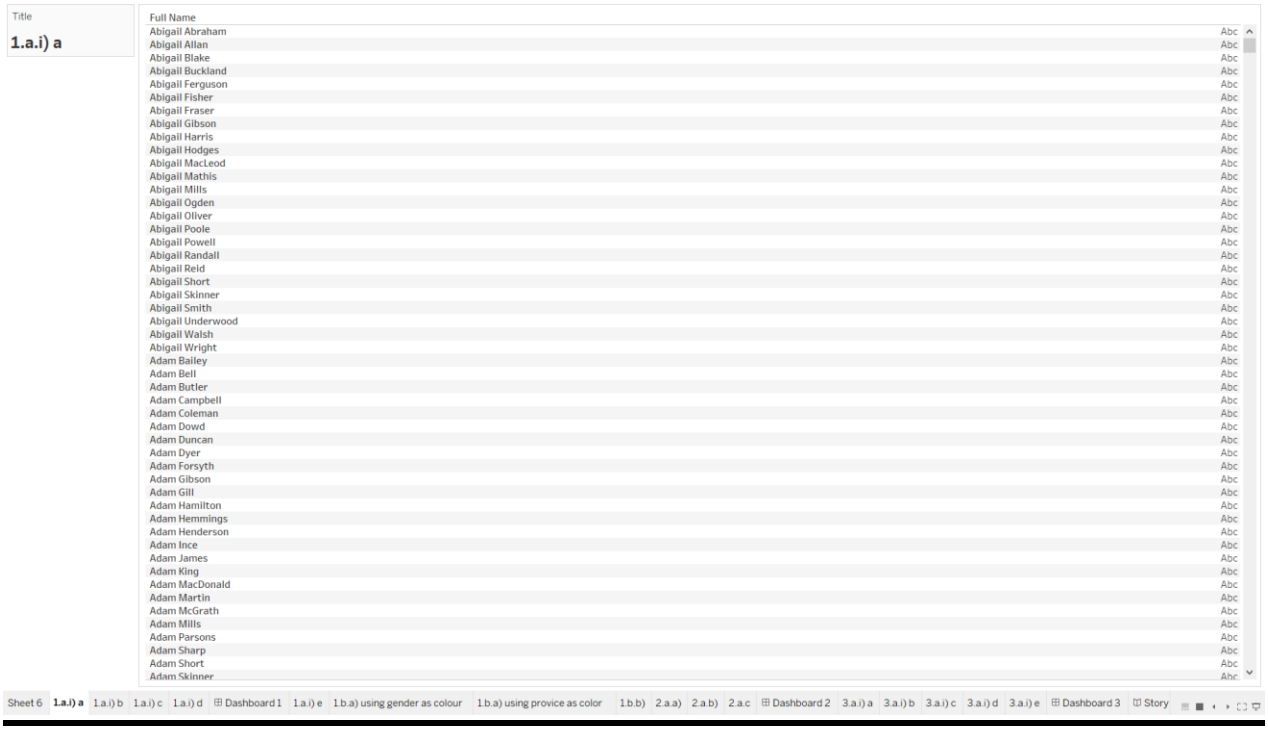
Name : S SANTOSH

SRN : PES2PGE20DS005

Feb 2021

Program - M.Tech in Data Science and Machine Learning

Screen shots of charts and story dashboard

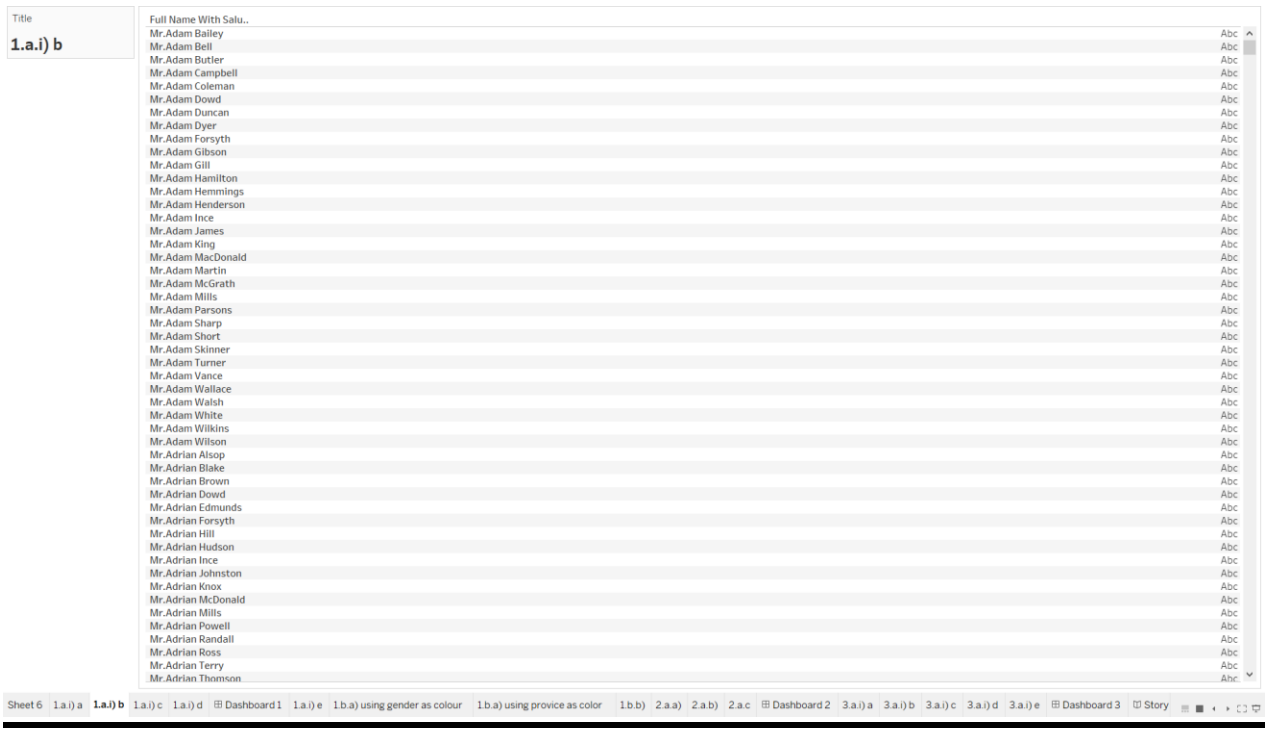


Title

1.a.i) a

Full Name
Abigail Abraham
Abigail Allan
Abigail Blake
Abigail Buckland
Abigail Ferguson
Abigail Fisher
Abigail Fraser
Abigail Gibson
Abigail Harris
Abigail Hodges
Abigail MacLeod
Abigail Mathis
Abigail Mills
Abigail Ogden
Abigail Oliver
Abigail Poole
Abigail Powell
Abigail Randall
Abigail Reid
Abigail Short
Abigail Skinner
Abigail Smith
Abigail Underwood
Abigail Walsh
Abigail Wright
Adam Bailey
Adam Bell
Adam Butler
Adam Campbell
Adam Coleman
Adam Dowd
Adam Duncan
Adam Dyer
Adam Forsyth
Adam Gibson
Adam Gill
Adam Hamilton
Adam Hemmings
Adam Henderson
Adam Ince
Adam James
Adam King
Adam MacDonald
Adam Martin
Adam McGrath
Adam Mills
Adam Parsons
Adam Sharp
Adam Short
Adam Skinner

Sheet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story



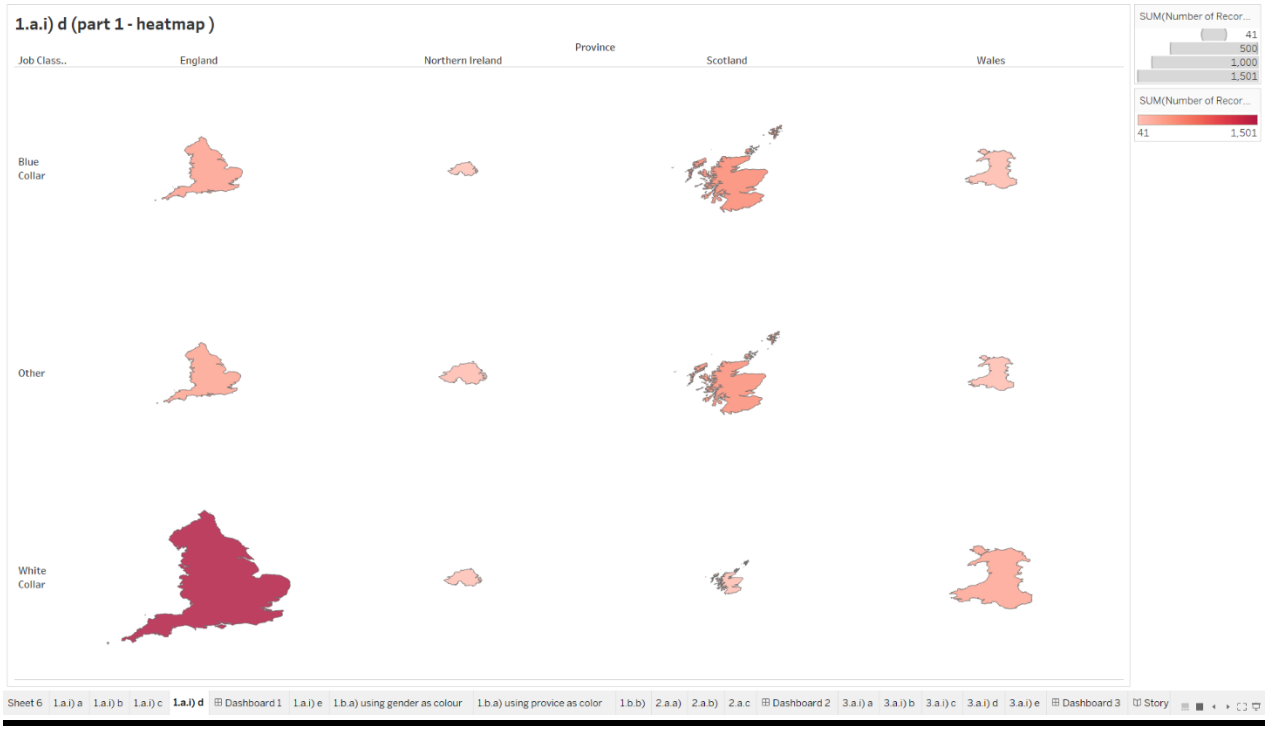
Title

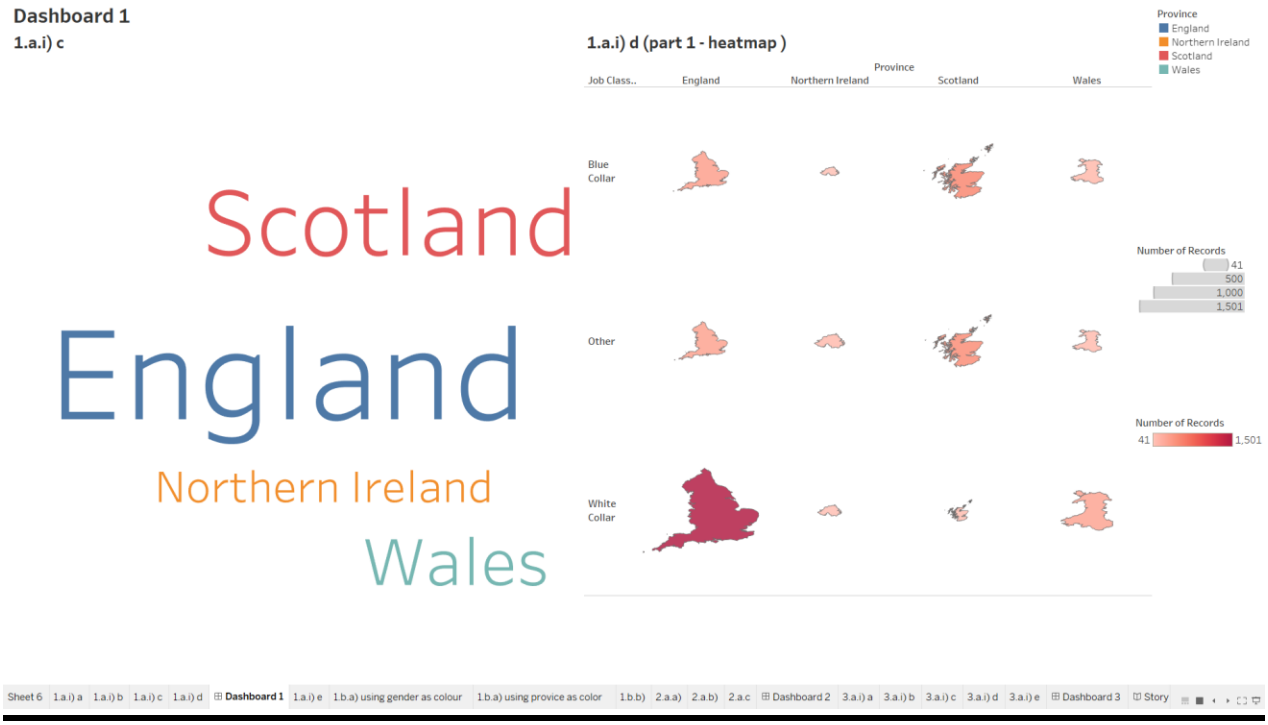
1.a.i) b

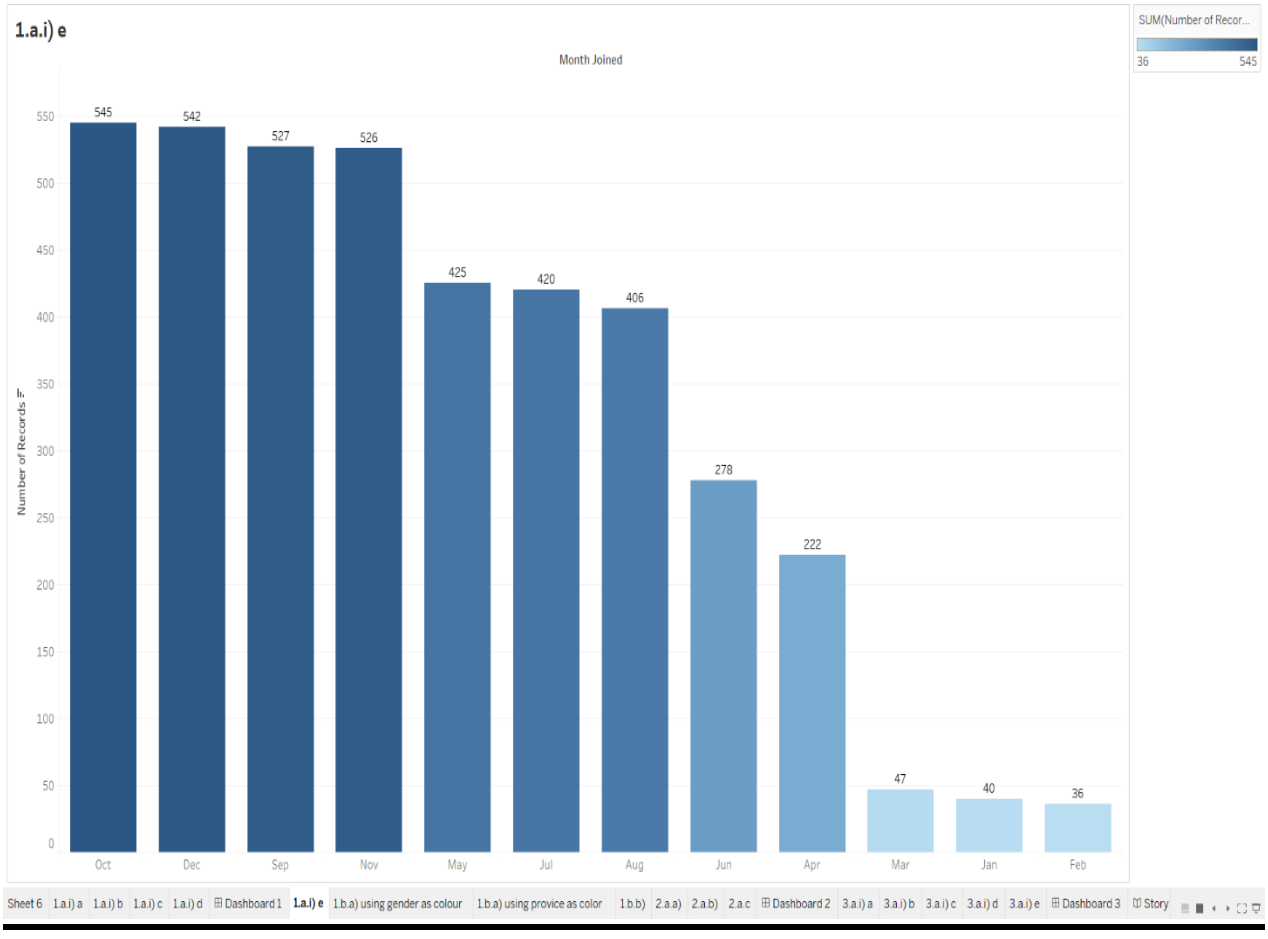
Full Name With Salu..
Mr.Adam Bailey
Mr.Adam Bell
Mr.Adam Butler
Mr.Adam Campbell
Mr.Adam Coleman
Mr.Adam Dowd
Mr.Adam Duncan
Mr.Adam Dyer
Mr.Adam Forsyth
Mr.Adam Gibson
Mr.Adam Gill
Mr.Adam Hamilton
Mr.Adam Hemmings
Mr.Adam Henderson
Mr.Adam Ince
Mr.Adam James
Mr.Adam King
Mr.Adam MacDonald
Mr.Adam Martin
Mr.Adam McGrath
Mr.Adam Mills
Mr.Adam Parsons
Mr.Adam Sharp
Mr.Adam Short
Mr.Adam Skinner
Mr.Adam Turner
Mr.Adam Vance
Mr.Adam Wallace
Mr.Adam Walsh
Mr.Adam White
Mr.Adam Wilkins
Mr.Adam Wilson
Mr.Adrian Alsop
Mr.Adrian Blake
Mr.Adrian Brown
Mr.Adrian Dowd
Mr.Adrian Edmunds
Mr.Adrian Forsyth
Mr.Adrian Hill
Mr.Adrian Hudson
Mr.Adrian Ince
Mr.Adrian Johnston
Mr.Adrian Knox
Mr.Adrian McDonald
Mr.Adrian Mills
Mr.Adrian Powell
Mr.Adrian Randall
Mr.Adrian Ross
Mr.Adrian Terry
Mr.Adrian Thomson

Sheet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story

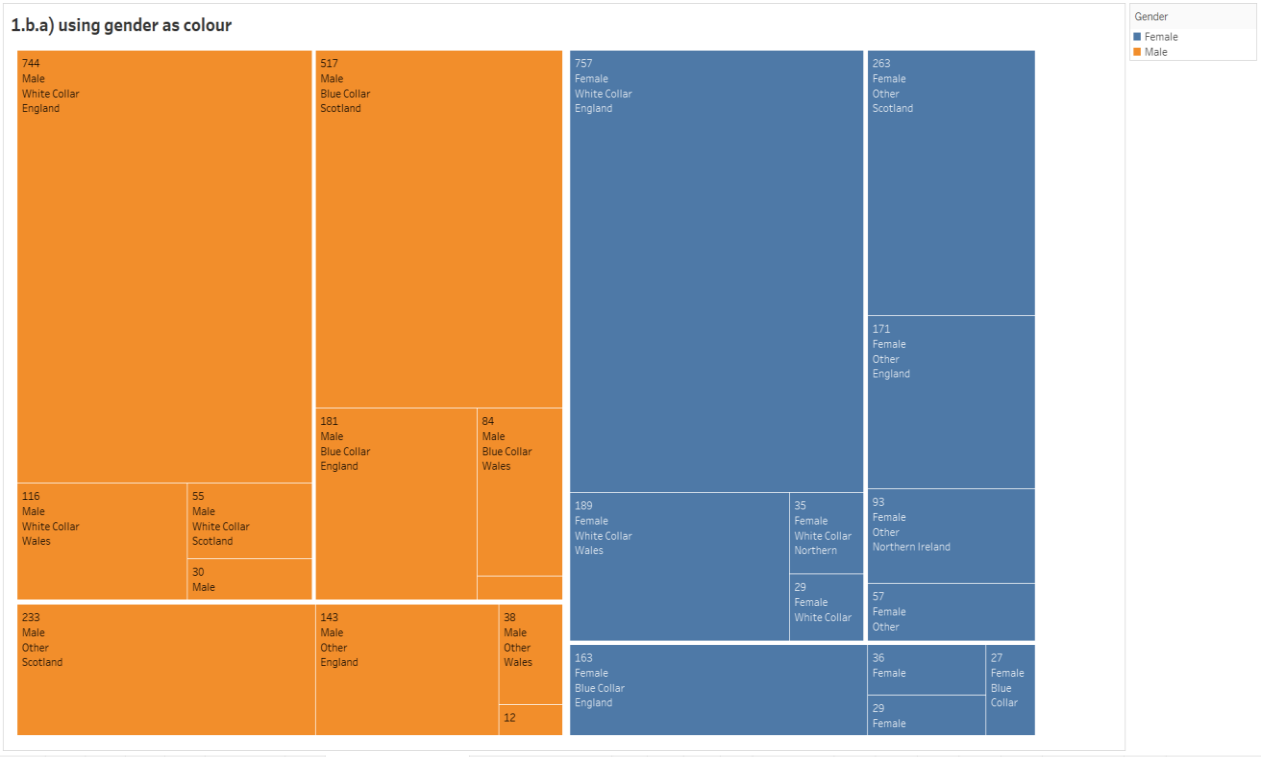
Title
1.a.i) c
Wales
Northern Ireland
England
Scotland
Province
England
Northern Ireland
Scotland
Wales
Sheet 6 1.a.i) a 1.a.i) b 1.a.i) c 1.a.i) d Dashboard 1 1.a.i) e 1.b.a) using gender as colour 1.b.a) using provice as color 1.b.b) 2.a.a) 2.a.b) 2.a.c Dashboard 2 3.a.i) a 3.a.i) b 3.a.i) c 3.a.i) d 3.a.i) e Dashboard 3 Story


1.a.i) d (part 1 - heatmap)
Province
Job Class..
England
Northern Ireland
Scotland
Wales
Blue Collar
Other
White Collar
SUM(Number of Recor...
41
500
1,000
1,501
SUM(Number of Recor...
41
1,501
Sheet 6 1.a.i) a 1.a.i) b 1.a.i) c 1.a.i) d Dashboard 1 1.a.i) e 1.b.a) using gender as colour 1.b.a) using provice as color 1.b.b) 2.a.a) 2.a.b) 2.a.c Dashboard 2 3.a.i) a 3.a.i) b 3.a.i) c 3.a.i) d 3.a.i) e Dashboard 3 Story


Dashboard 1
1.a.i) c
Scotland
England
Northern Ireland
Wales
1.a.i) d (part 1 - heatmap)
Province
England
Northern Ireland
Scotland
Wales
Job Class..
Blue Collar
Other
White Collar
Number of Records
41
500
1,000
1,501
Number of Records
41
1,501
Sheet 6
1.a.i) a
1.a.i) b
1.a.i) c
1.a.i) d
Dashboard 1
1.a.i) e
1.b.a) using gender as colour
1.b.a) using provice as color
1.b.b)
2.a.a)
2.a.b)
2.a.c
Dashboard 2
3.a.i) a
3.a.i) b
3.a.i) c
3.a.i) d
3.a.i) e
Dashboard 3
Story

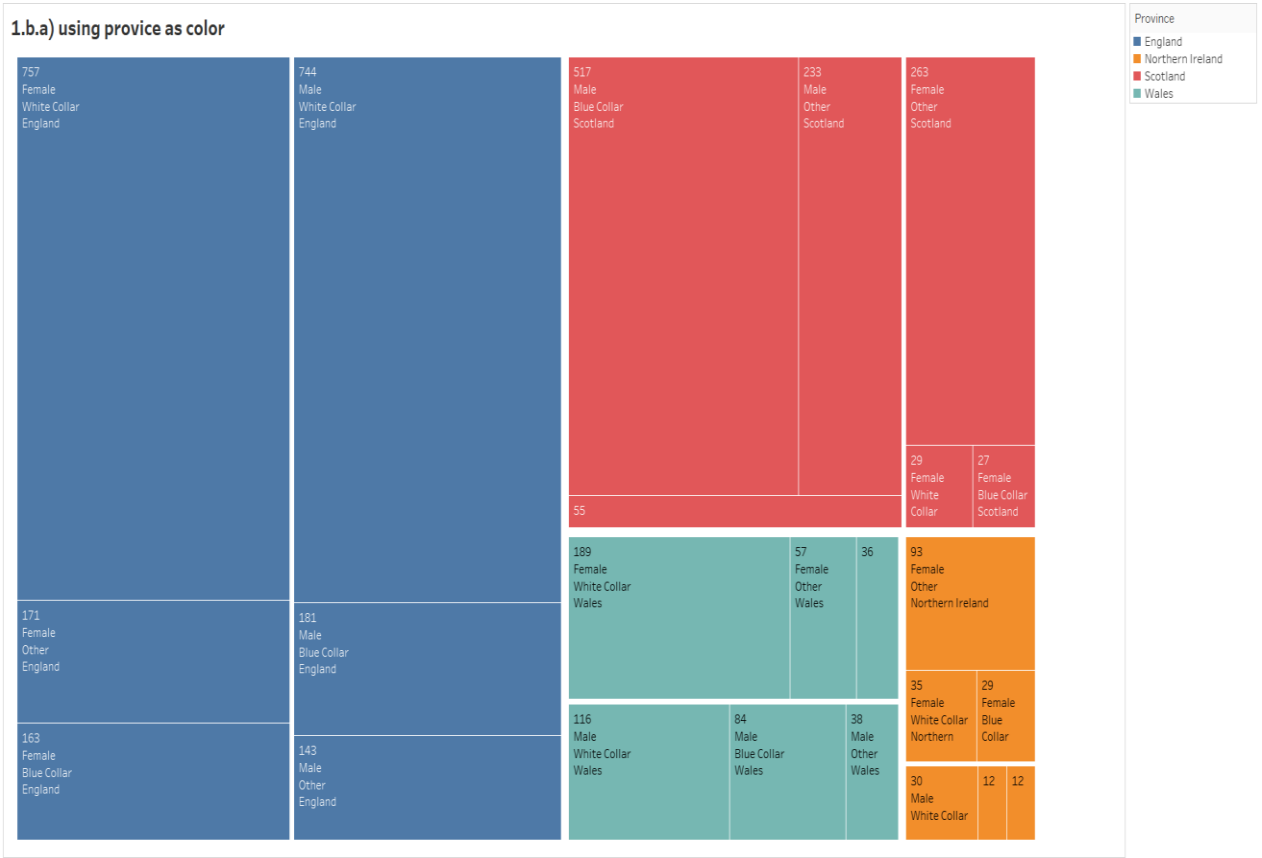

1.a.i) e
Month Joined
SUM(Number of Recor...
36
545
Number of Records
545
542
527
526
425
420
406
278
222
47
40
36
Oct
Dec
Sep
Nov
May
Jul
Aug
Jun
Apr
Mar
Jan
Feb
Sheet 6
1.a.i) a
1.a.i) b
1.a.i) c
1.a.i) d
Dashboard 1
1.a.i) e
1.b.a) using gender as colour
1.b.a) using provice as color
1.b.b)
2.a.a)
2.a.b)
2.a.c
Dashboard 2
3.a.i) a
3.a.i) b
3.a.i) c
3.a.i) d
3.a.i) e
Dashboard 3
Story

1.b.a) using gender as colour

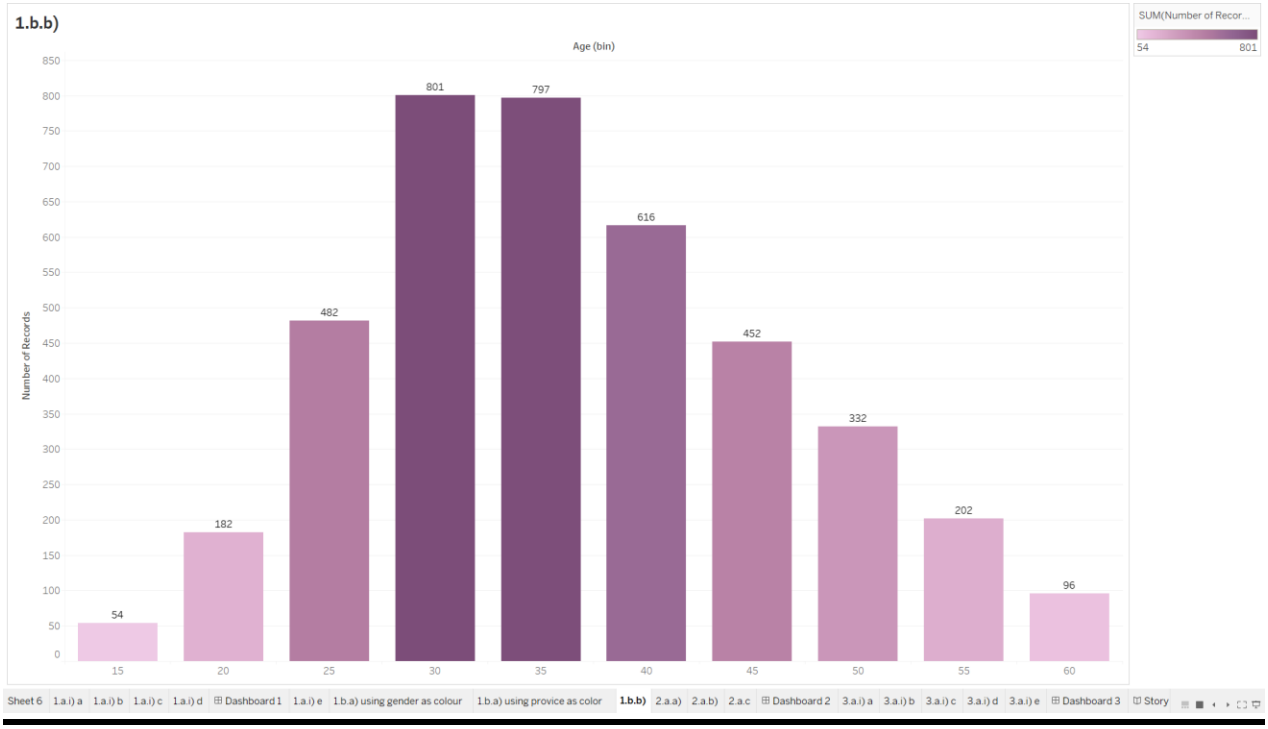


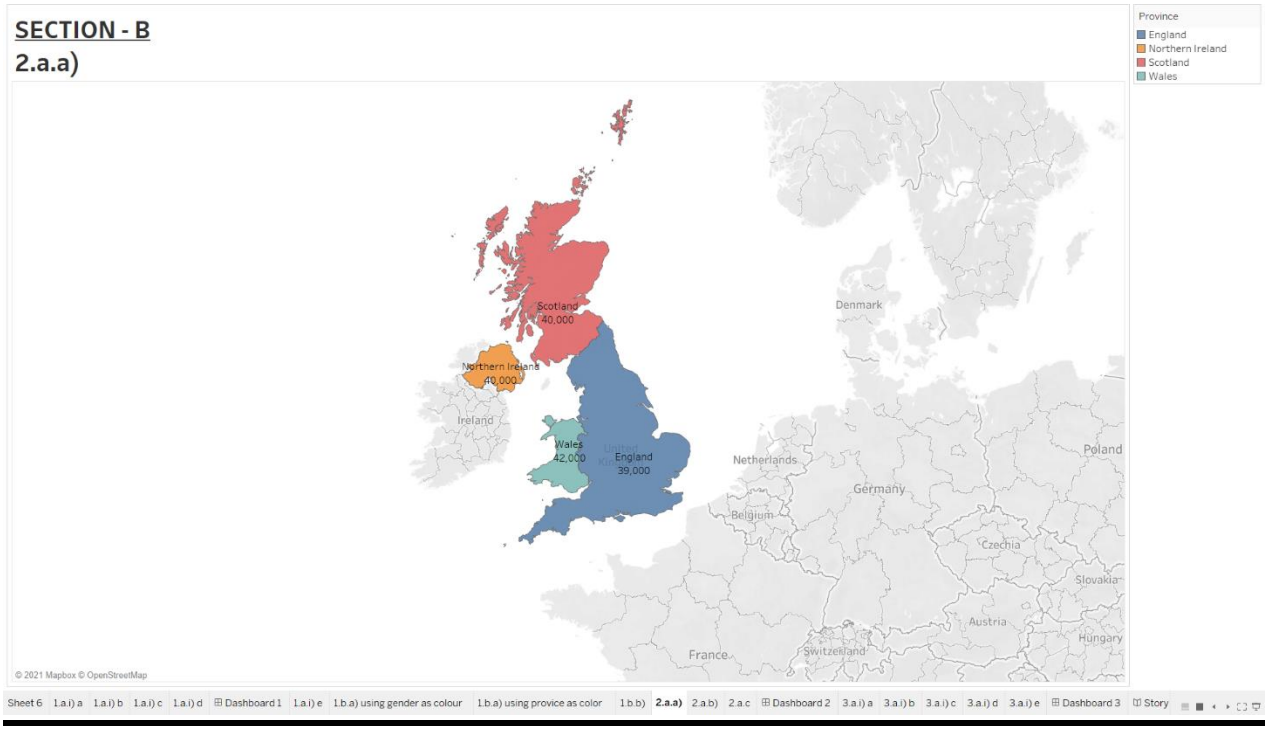
Sheet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | **1.b.a) using gender as colour** | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story

1.b.a) using provice as color



Sheet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | **1.b.a) using provice as color** | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story


1.b.b)
Age (bin)
Number of Records
SUM(Number of Recor...
54
801
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
54
182
482
801
797
616
452
332
202
96
15
20
25
30
35
40
45
50
55
60
Sheet 6
1.a.i) a
1.a.i) b
1.a.i) c
1.a.i) d
Dashboard 1
1.a.i) e
1.b.a) using gender as colour
1.b.a) using provice as color
1.b.b)
2.a.a)
2.a.b)
2.a.c
Dashboard 2
3.a.i) a
3.a.i) b
3.a.i) c
3.a.i) d
3.a.i) e
Dashboard 3
Story


SECTION - B
2.a.a)
Province
England
Northern Ireland
Scotland
Wales
Scotland
40,000
Northern Ireland
40,000
Ireland
Wales
42,000
England
39,000
Denmark
Netherlands
Germany
Belgium
Poland
Czechia
Slovakia
Austria
Hungary
France
Switzerland
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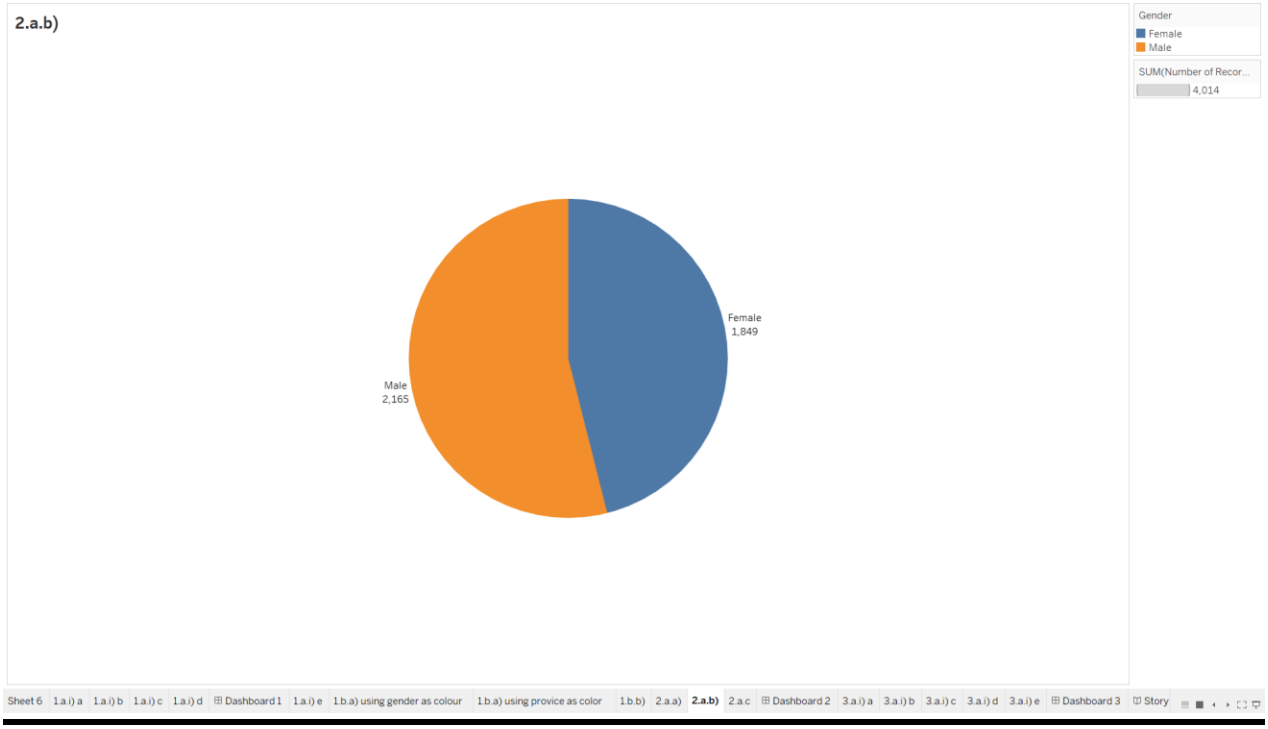
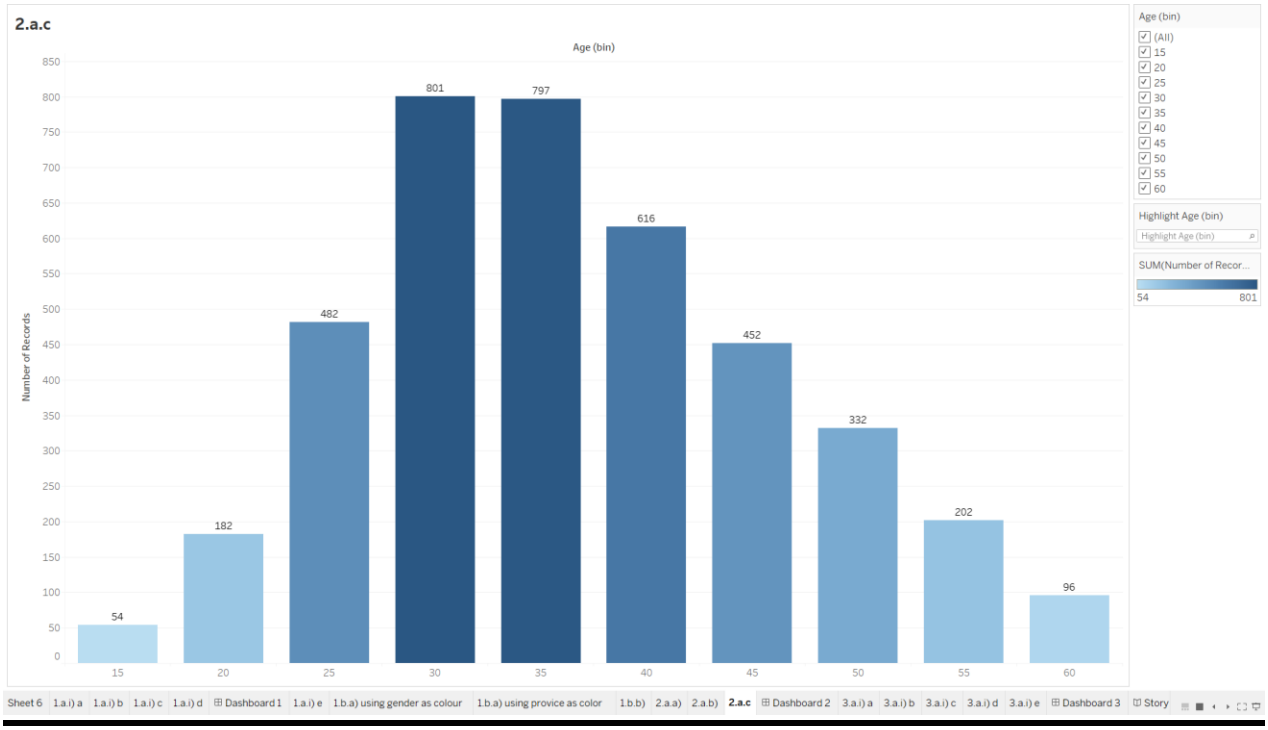
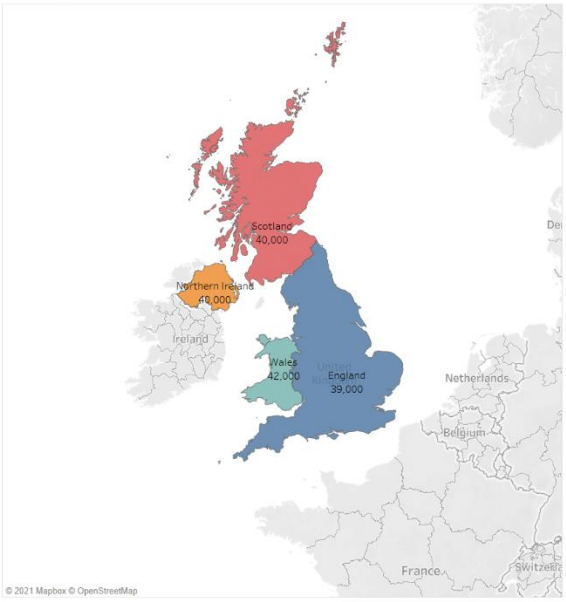
Sheet 6
1.a.i) a
1.a.i) b
1.a.i) c
1.a.i) d
Dashboard 1
1.a.i) e
1.b.a) using gender as colour
1.b.a) using provice as color
1.b.b)
2.a.a)
2.a.b)
2.a.c
Dashboard 2
3.a.i) a
3.a.i) b
3.a.i) c
3.a.i) d
3.a.i) e
Dashboard 3
Story


2.a.b)
Gender
Female
Male
SUM(Number of Recor...
4,014
Female
1,849
Male
2,165
Sheet 6 1.a.i) a 1.a.i) b 1.a.i) c 1.a.i) d Dashboard 1 1.a.i) e 1.b.a) using gender as colour 1.b.a) using provice as color 1.b.b) 2.a.a) 2.a.b) 2.a.c Dashboard 2 3.a.i) a 3.a.i) b 3.a.i) c 3.a.i) d 3.a.i) e Dashboard 3 Story

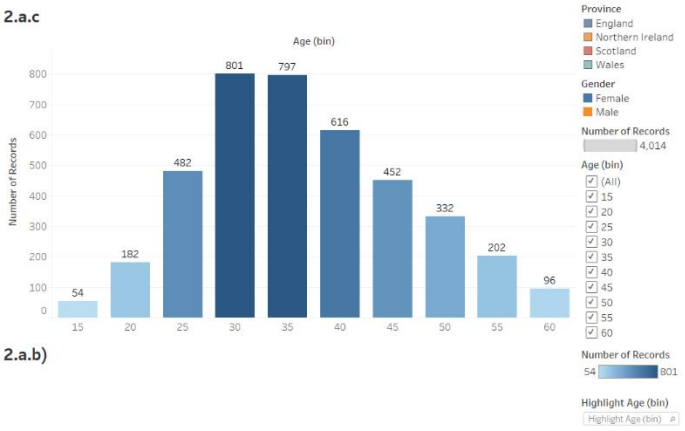

2.a.c
Age (bin)
(All)
15
20
25
30
35
40
45
50
55
60
Highlight Age (bin)
Highlight Age (bin)
SUM(Number of Recor...
54
801
Age (bin)
Number of Records
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
54
182
482
801
797
616
452
332
202
96
15
20
25
30
35
40
45
50
55
60
Sheet 6 1.a.i) a 1.a.i) b 1.a.i) c 1.a.i) d Dashboard 1 1.a.i) e 1.b.a) using gender as colour 1.b.a) using provice as color 1.b.b) 2.a.a) 2.a.b) 2.a.c Dashboard 2 3.a.i) a 3.a.i) b 3.a.i) c 3.a.i) d 3.a.i) e Dashboard 3 Story

SECTION - B

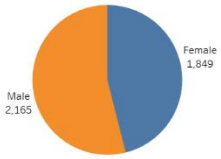
2.a.a)



2.a.c



2.a.b)

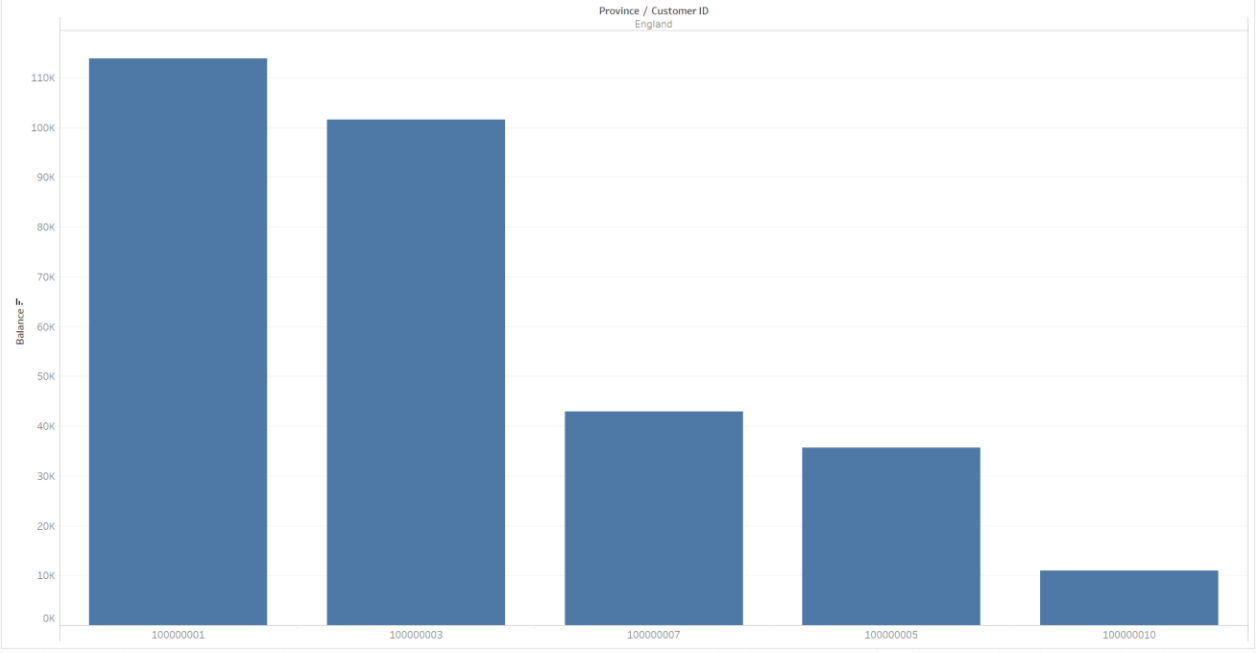


Sheet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | **Dashboard 2** | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story

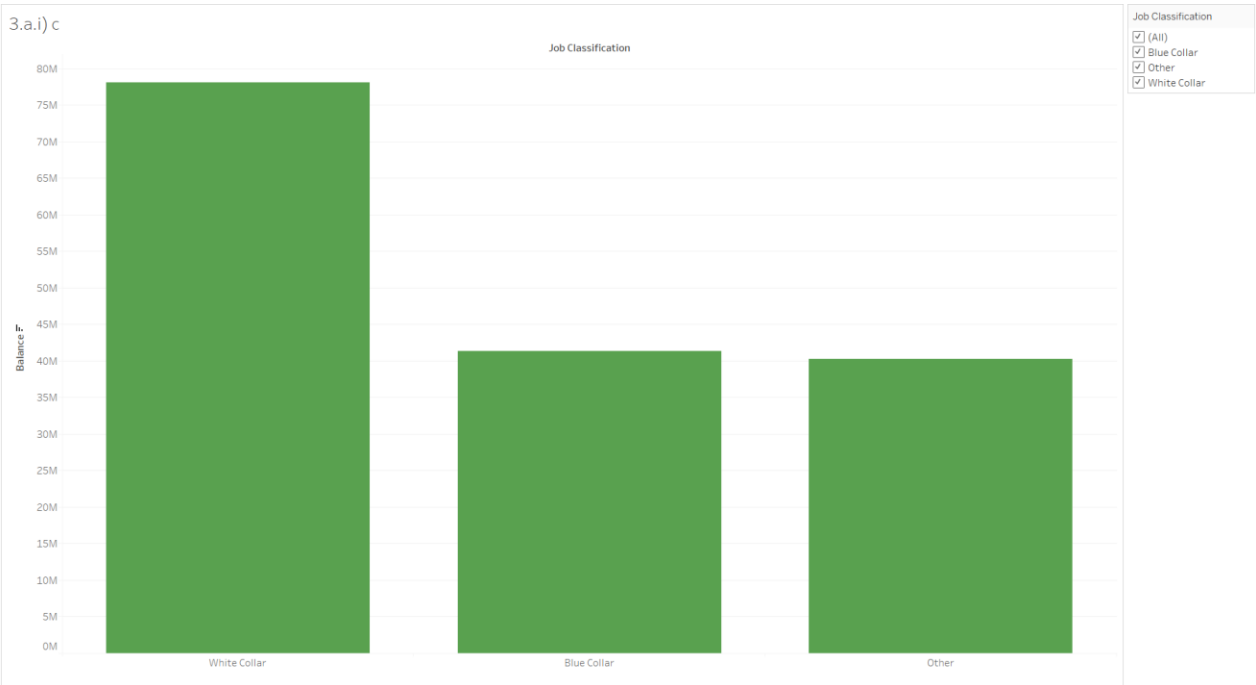
3.a.i) a

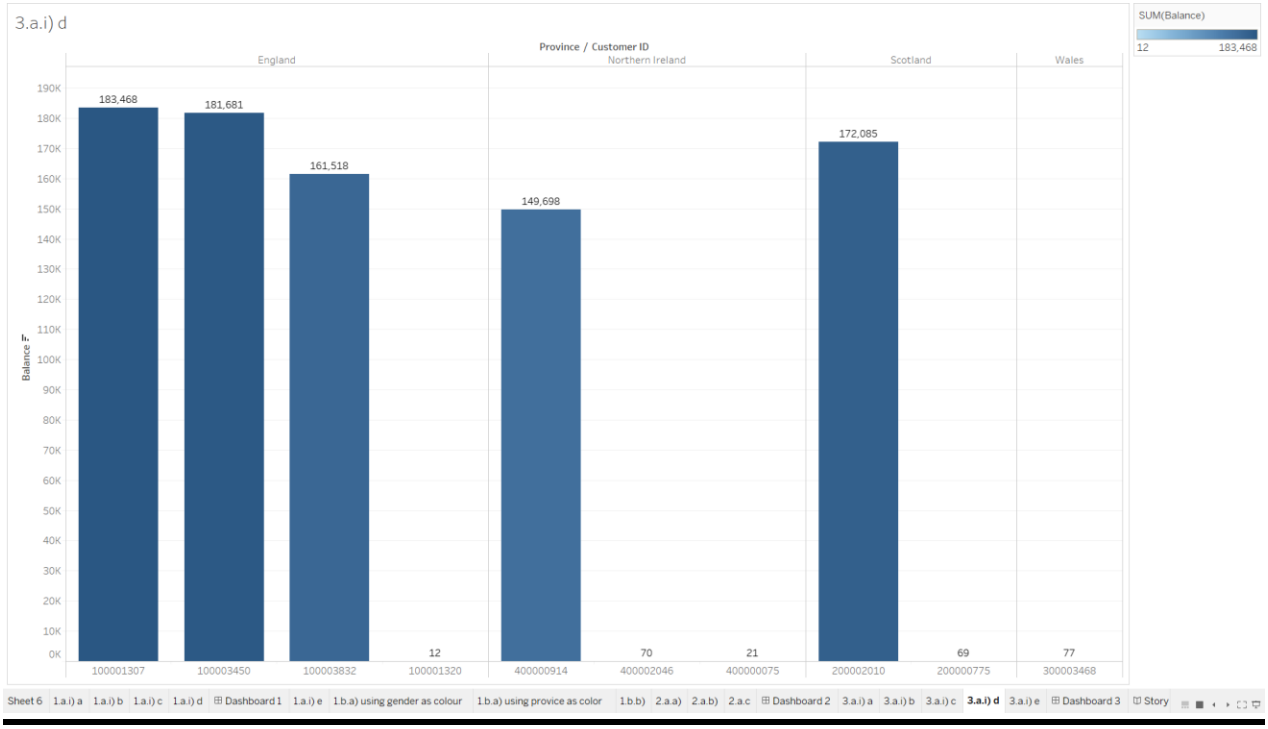
Sheet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | **3.a.i) a** | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story

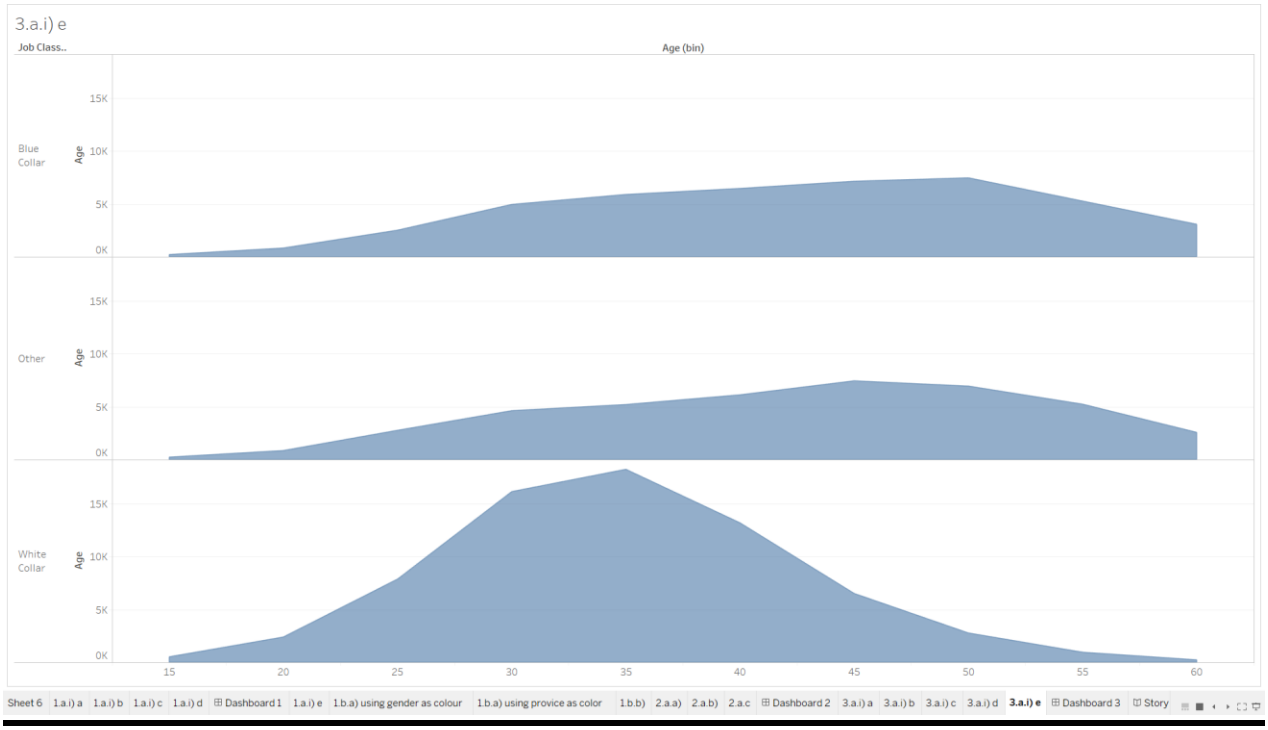
3.a.i) b

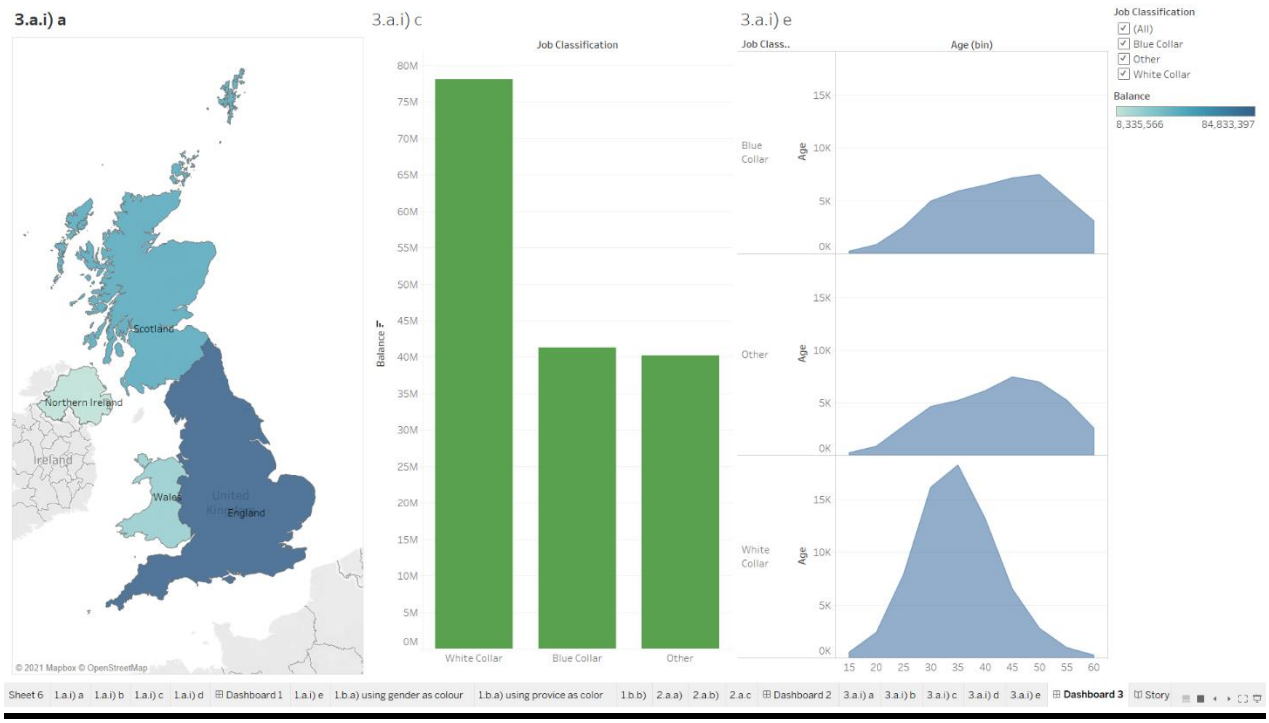

Province / Customer ID
England
Balance
110K
100K
90K
80K
70K
60K
50K
40K
30K
20K
10K
0K
100000001
100000003
100000007
100000005
100000010

3.a.i) c


Job Classification
Balance
80M
75M
70M
65M
60M
55M
50M
45M
40M
35M
30M
25M
20M
15M
10M
5M
0M
White Collar
Blue Collar
Other
Job Classification
(All)
Blue Collar
Other
White Collar


3.a.i) d
Province / Customer ID
England
Northern Ireland
Scotland
Wales
SUM(Balance)
12
183,468
Balance F
183,468
181,681
161,518
12
149,698
70
21
172,085
69
77
100001307
100003450
100003832
100001320
400000914
400002046
400000075
200002010
200000775
300003468
Sheet 6 1.a.i) a 1.a.i) b 1.a.i) c 1.a.i) d Dashboard 1 1.a.i) e 1.b.a) using gender as colour 1.b.a) using provice as color 1.b.b) 2.a.a) 2.a.b) 2.a.c Dashboard 2 3.a.i) a 3.a.i) b 3.a.i) c 3.a.i) d 3.a.i) e Dashboard 3 Story


3.a.i) e
Job Class..
Age (bin)
Blue Collar
Other
White Collar
Age
15K
10K
5K
0K
15
20
25
30
35
40
45
50
55
60
Sheet 6 1.a.i) a 1.a.i) b 1.a.i) c 1.a.i) d Dashboard 1 1.a.i) e 1.b.a) using gender as colour 1.b.a) using provice as color 1.b.b) 2.a.a) 2.a.b) 2.a.c Dashboard 2 3.a.i) a 3.a.i) b 3.a.i) c 3.a.i) d 3.a.i) e Dashboard 3 Story


3.a.i) a
Scotland
Northern Ireland
Ireland
Wales
England
© 2021 Mapbox © OpenStreetMap
3.a.i) c
Job Classification
Balance
80M
75M
70M
65M
60M
55M
50M
45M
40M
35M
30M
25M
20M
15M
10M
5M
0M
White Collar
Blue Collar
Other
3.a.i) e
Job Class..
Age (bin)
Blue Collar
Other
White Collar
Age
15K
10K
5K
0K
15
20
25
30
35
40
45
50
55
60
Job Classification
(All)
Blue Collar
Other
White Collar
Balance
8,335,566
84,833,397
Sheet 6
1.a.i) a
1.a.i) b
1.a.i) c
1.a.i) d
Dashboard 1
1.a.i) e
1.b.a) using gender as colour
1.b.a) using provice as color
1.b.b)
2.a.a)
2.a.b)
2.a.c
Dashboard 2
3.a.i) a
3.a.i) b
3.a.i) c
3.a.i) d
3.a.i) e
Dashboard 3
Story

Story 1
Column "Full Name" joining Name and Surname
Full Name with Salutation
Word cloud for Region
Heat Map based on Job classification and Region
Dashboard 1
month with the highest number of joiners
Tree Map display Province, Gender
Province
England
Northern Ireland
Scotland
Wales
Northern Ireland
England
Wales
Scotland
heet 6
1.a.i) a
1.a.i) b
1.a.i) c
1.a.i) d
Dashboard 1
1.a.i) e
1.b.a) using gender as colour
1.b.a) using provice as color
1.b.b)
2.a.a)
2.a.b)
2.a.c
Dashboard 2
3.a.i) a
3.a.i) b
3.a.i) c
3.a.i) d
3.a.i) e
Dashboard 3
Story 1

3.b) Story and Insights

Column "Full Name" joining Name and Surname | Full Name with Salutation | Word cloud for Region | Heat Map based on Job classification and Region | Dashboard 1 | month with the highest number of joiners | Tree Map display Province, Gender

Full Name
Abigail Abraham
Abigail Allan
Abigail Blake
Abigail Buckland
Abigail Ferguson
Abigail Fisher
Abigail Fraser
Abigail Gibson
Abigail Harris
Abigail Hodges
Abigail MacLeod
Abigail Mathis
Abigail Mills
Abigail Ogden
Abigail Oliver
Abigail Poole
Abigail Powell
Abigail Randall
Abigail Reid
Abigail Short
Abigail Skinner
Abigail Smith
Abigail Underwood
Abigail Walsh
Abigail Wright
Adam Bailey
Adam Bell
Adam Butler
Adam Campbell
Adam Coleman
Adam Dowd
Adam Duncan
Adam Dyer
Adam Forsyth
Adam Gibson
Adam Gill
Adam Hamilton
Adam Hemmings
Adam Henderson
Adam Ince
Adam James
Adam King
Adam MacDonald

heet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story 1

Story 1

Column "Full Name" joining Name and Surname | Full Name with Salutation | Word cloud for Region | Heat Map based on Job classification and Region | Dashboard 1 | month with the highest number of joiners | Tree Map display Province, Gender

heet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story 1

Story 1

Column "Full Name" joining Name and Surname | Full Name with Salutation | Word cloud for Region | Heat Map based on Job classification and Region | Dashboard 1 | month with the highest number of joiners | Tree Map display Province, Gender

Dashboard 1

1.a.i) c

Scotland
England
Northern Ireland
Wales

1.a.i) d (part 1 - heatmap)

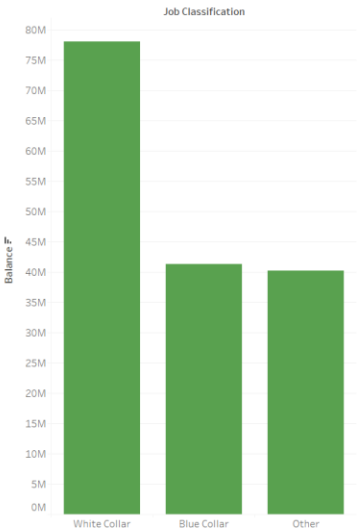
heet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story 1

Story 1

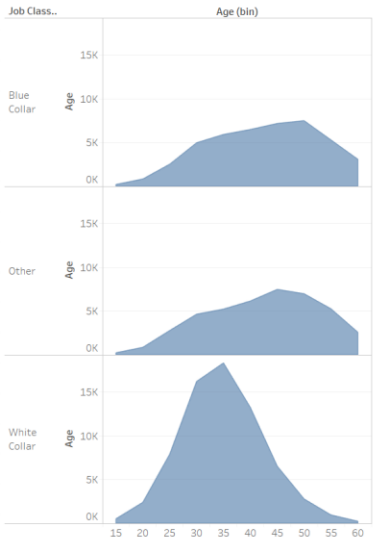
he split of Job | Histogram based on Age | Region in a Filled Map chart | Pie chart to display the split of gender | histogram based on Age Bin | Customer Segmentation DashBoard | Dashboard 3

3.a.i) a

3.a.i) c



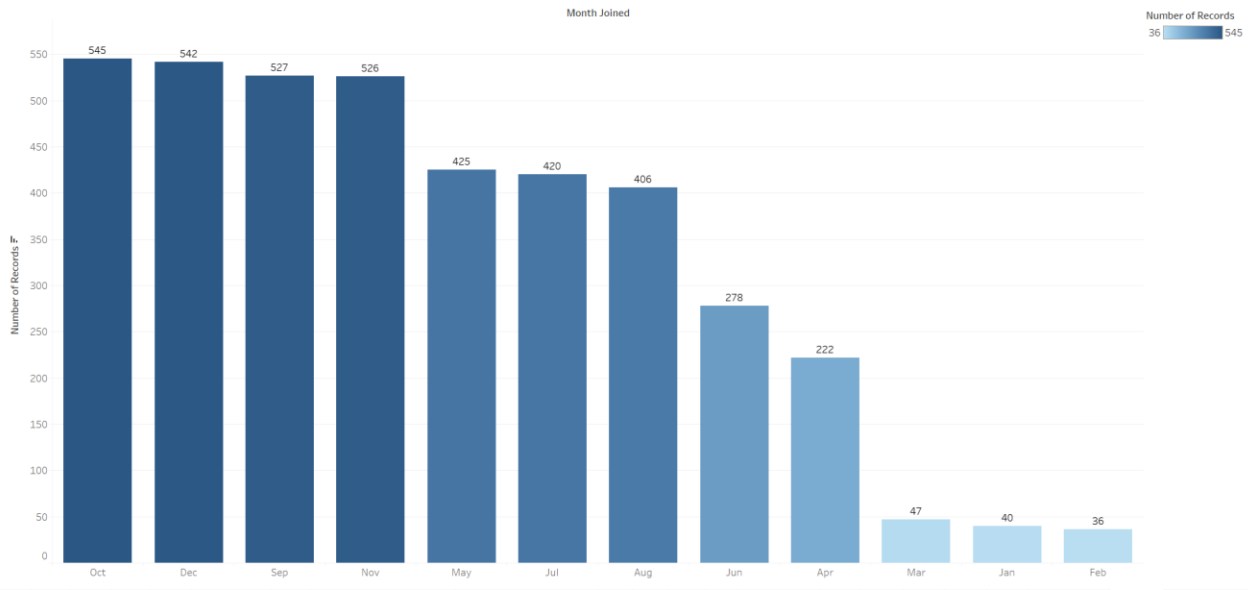
3.a.i) e



heet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story 1

Story 1

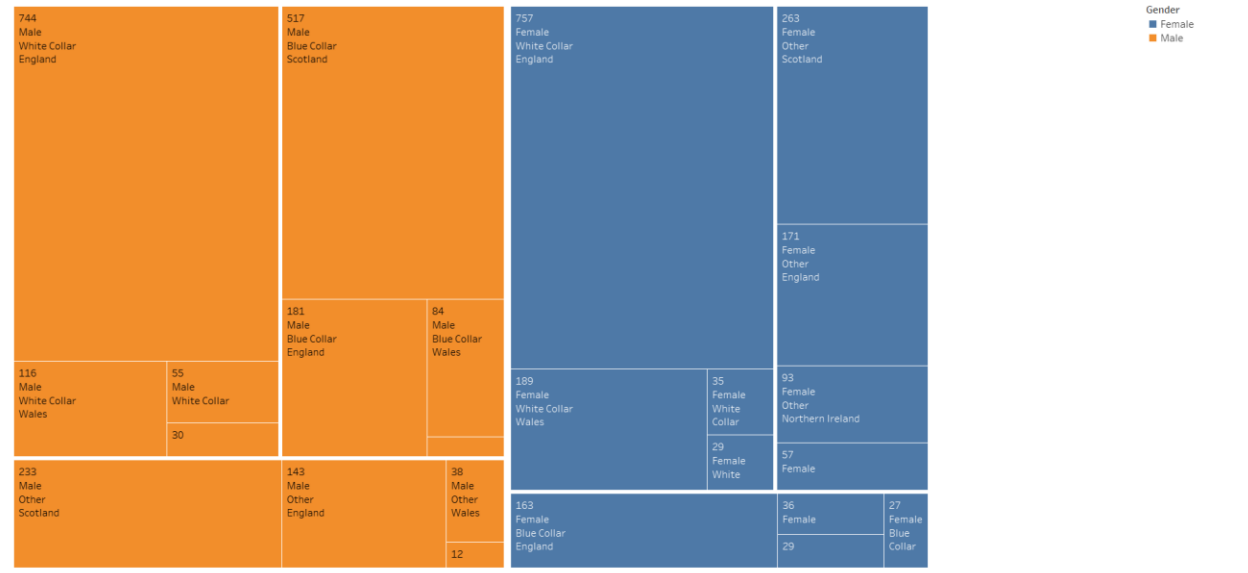
Column "Full Name" joining Name and Surname | Full Name with Salutation | Word cloud for Region | Heat Map based on Job classification and Region | Dashboard 1 | month with the highest number of joiners | Tree Map display Province, Gender



heet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story 1

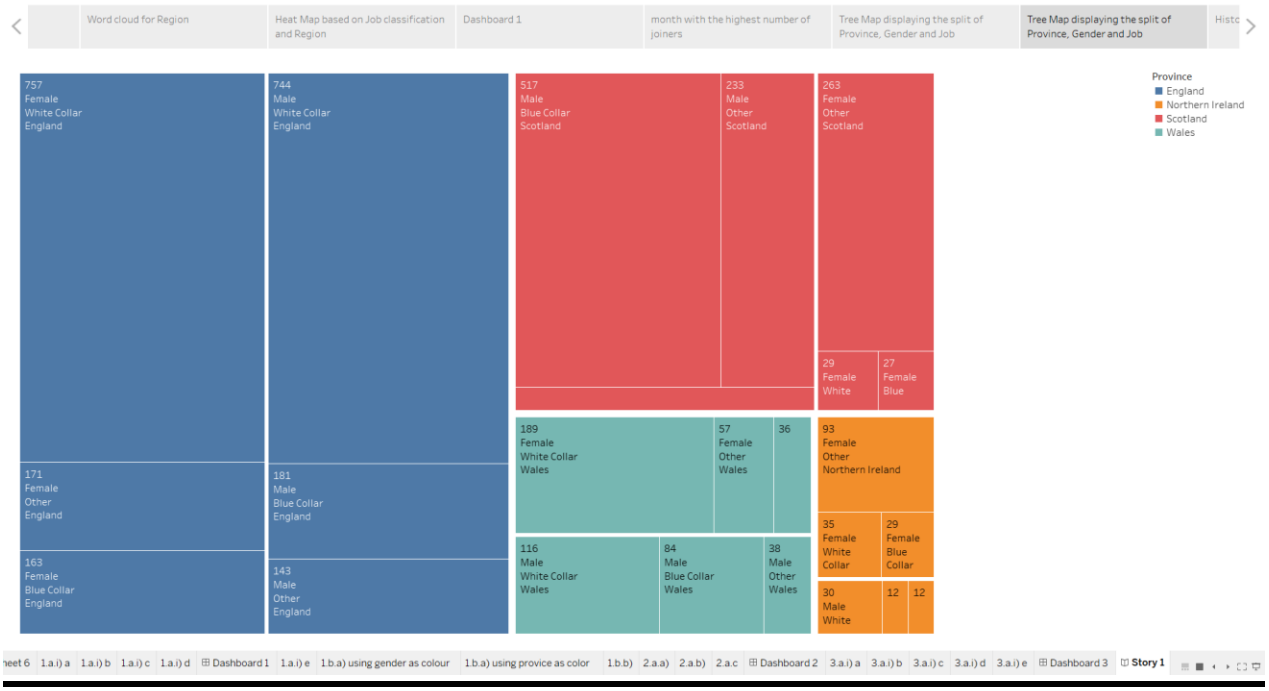
Story 1

Name and | Full Name with Salutation | Word cloud for Region | Heat Map based on Job classification and Region | Dashboard 1 | month with the highest number of joiners | Tree Map displaying the split of Province, Gender and Job | Tree I Provi

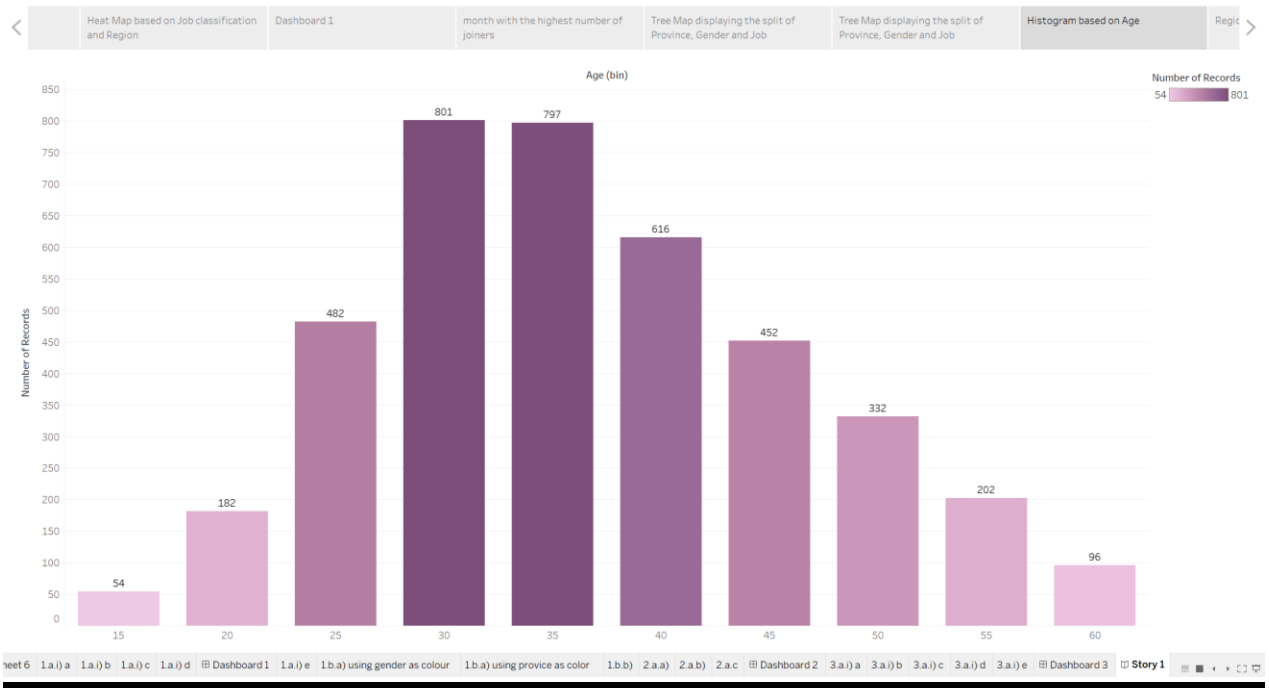


heet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story 1

Story 1

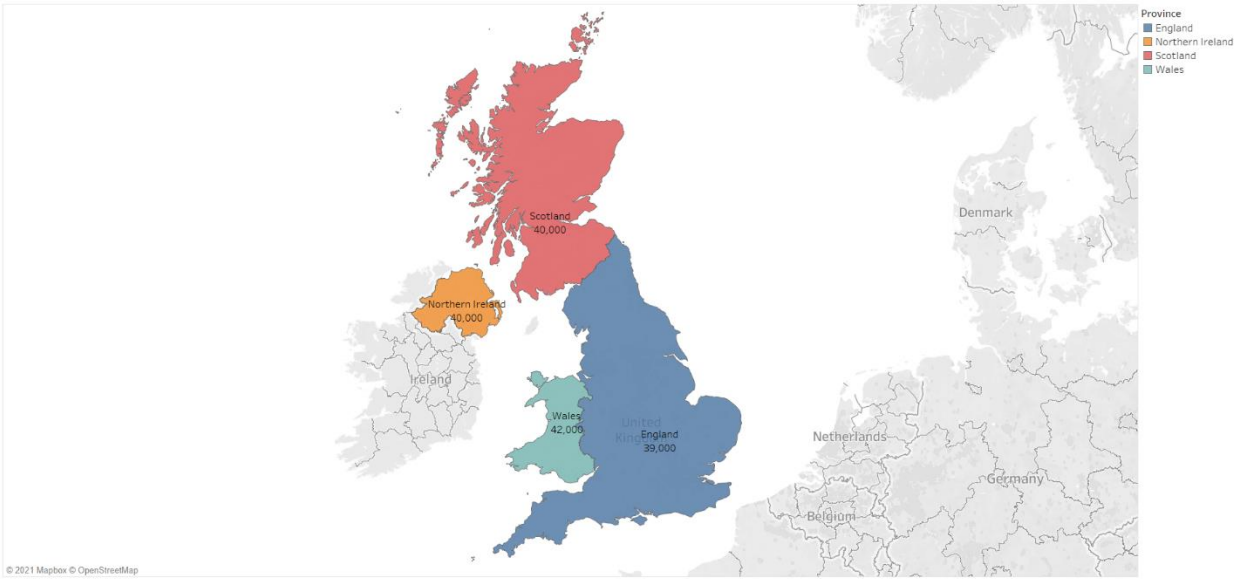


Story 1



Story 1

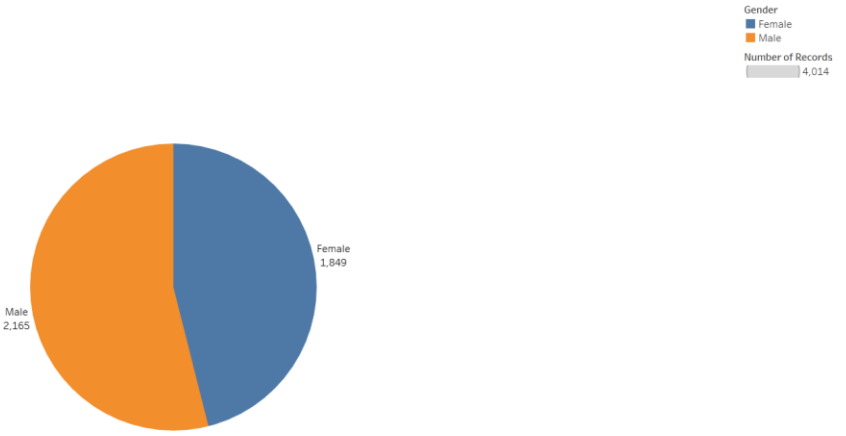
sification | Dashboard 1 | month with the highest number of joiners | Tree Map displaying the split of Province, Gender and Job | Tree Map displaying the split of Province, Gender and Job | Histogram based on Age | Region in a Filled Map chart | Pie ch gend



neet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story 1

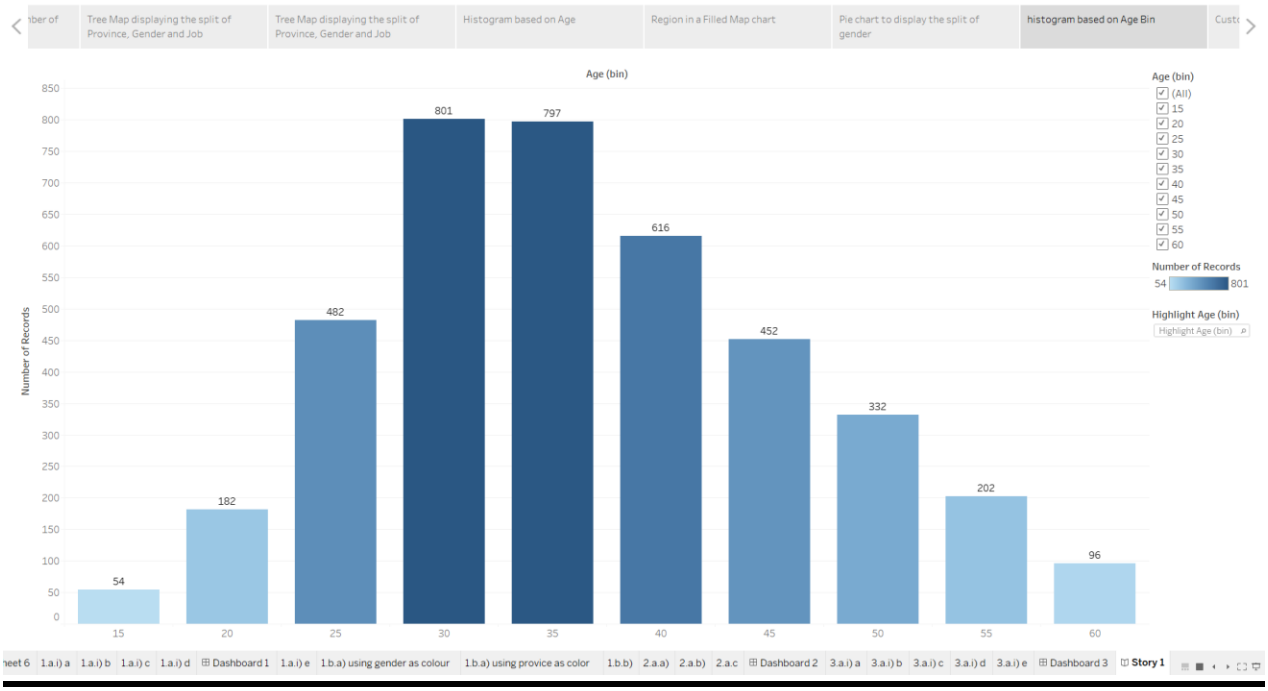
Story 1

month with the highest number of joiners | Tree Map displaying the split of Province, Gender and Job | Tree Map displaying the split of Province, Gender and Job | Histogram based on Age | Region in a Filled Map chart | Pie chart to display the split of gender | histo

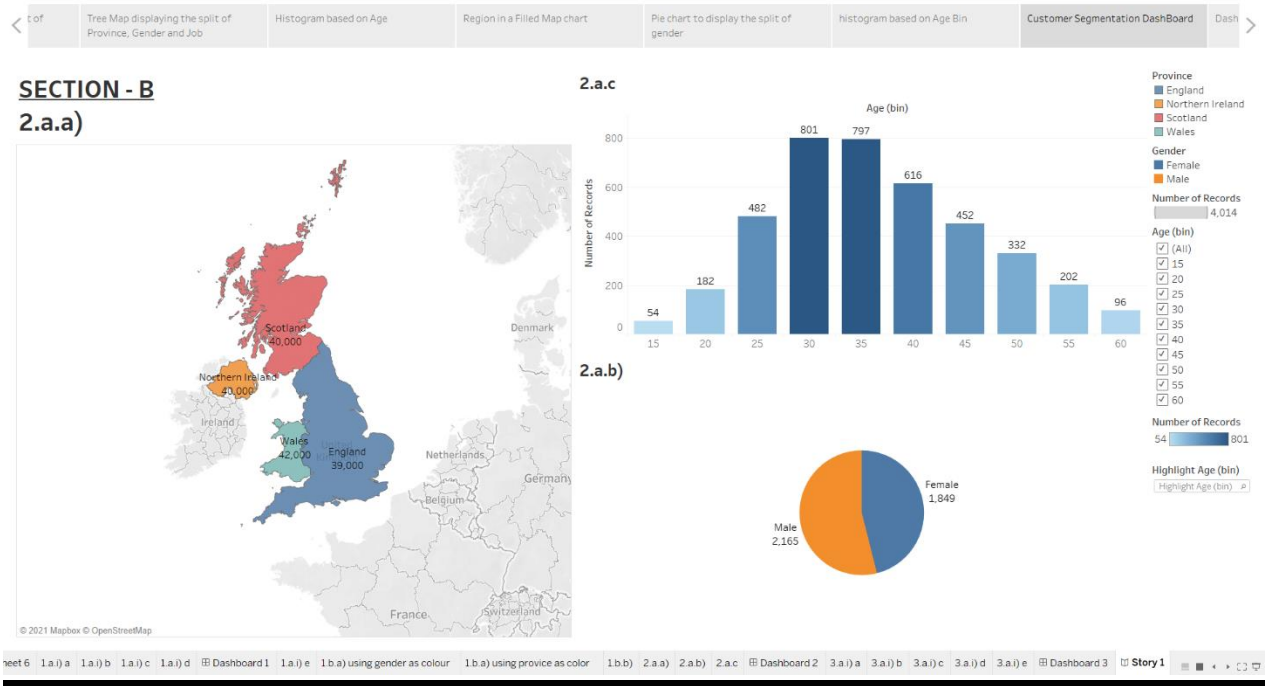


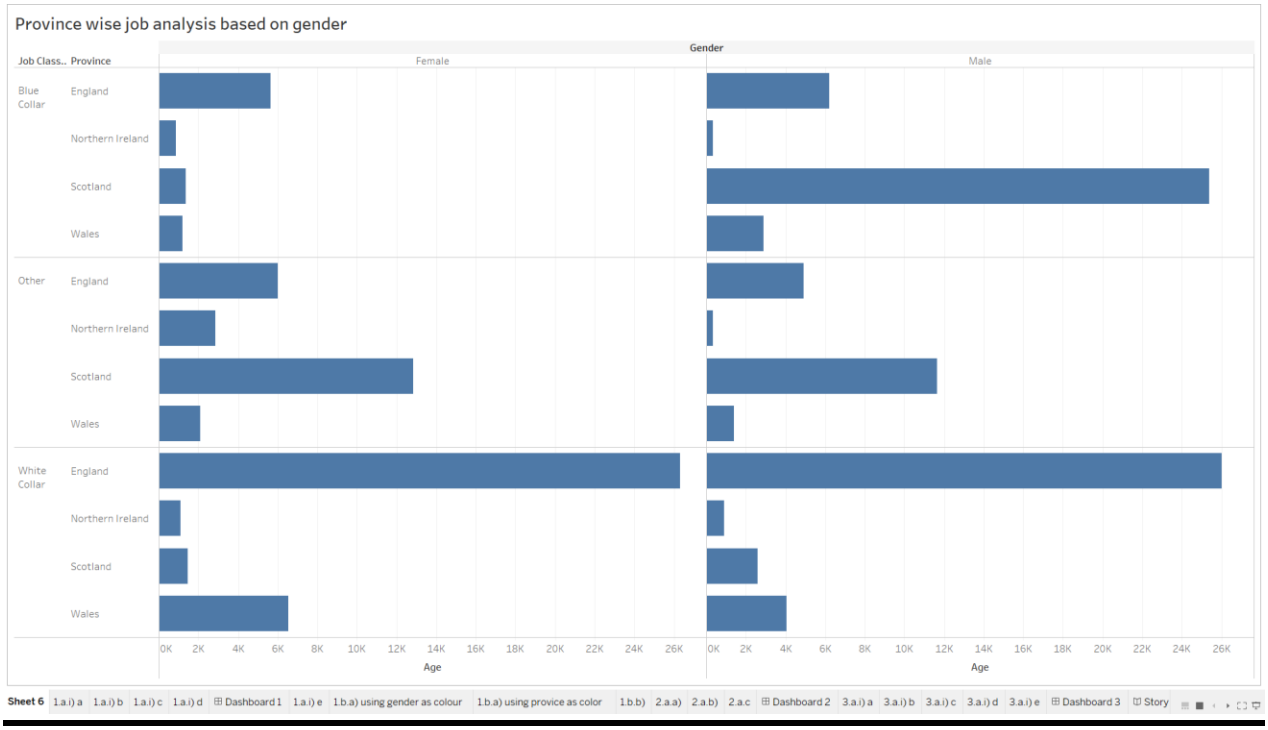
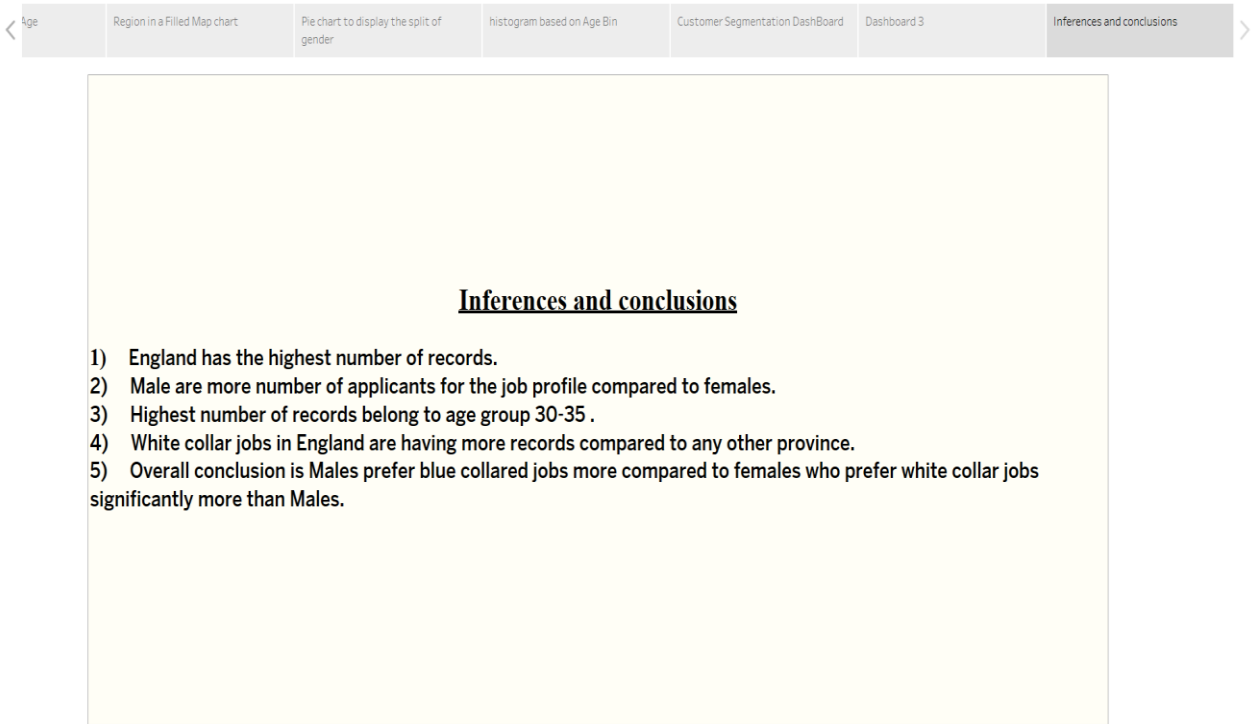
neet 6 | 1.a.i) a | 1.a.i) b | 1.a.i) c | 1.a.i) d | Dashboard 1 | 1.a.i) e | 1.b.a) using gender as colour | 1.b.a) using provice as color | 1.b.b) | 2.a.a) | 2.a.b) | 2.a.c | Dashboard 2 | 3.a.i) a | 3.a.i) b | 3.a.i) c | 3.a.i) d | 3.a.i) e | Dashboard 3 | Story 1

Story 1



Story 1





3.b) Story and Insights