

IDS 560

ANALYTICS STRATEGY AND PRACTISE

EMPLOYMENT DISPARITIES AMONG PEOPLE WITH DISABILITIES FROM DIVERSE ETHNIC GROUPS

**CLIENT: PROFESSOR ROOSHEY HASNAIN
DEPARTMENT OF DISABILITY AND HUMAN DEVELOPMENT
THE UNIVERSITY OF ILLINOIS AT CHICAGO**

APRIL 27, 2023

BY TEAM 7

OUR AGENDA

- Project and Client Introduction
- Value to the Client
- Original Gantt, Scope Changes, Final Gantt
- Solutions - US and Illinois BI Dashboard Solutions
- Deliverables and How is our project different from the previous batch?
- Road Ahead!
- Conclusion

Client Introduction



Professor Rooshey Hasnain
Department of Disability and Human Development
The University of Illinois at Chicago

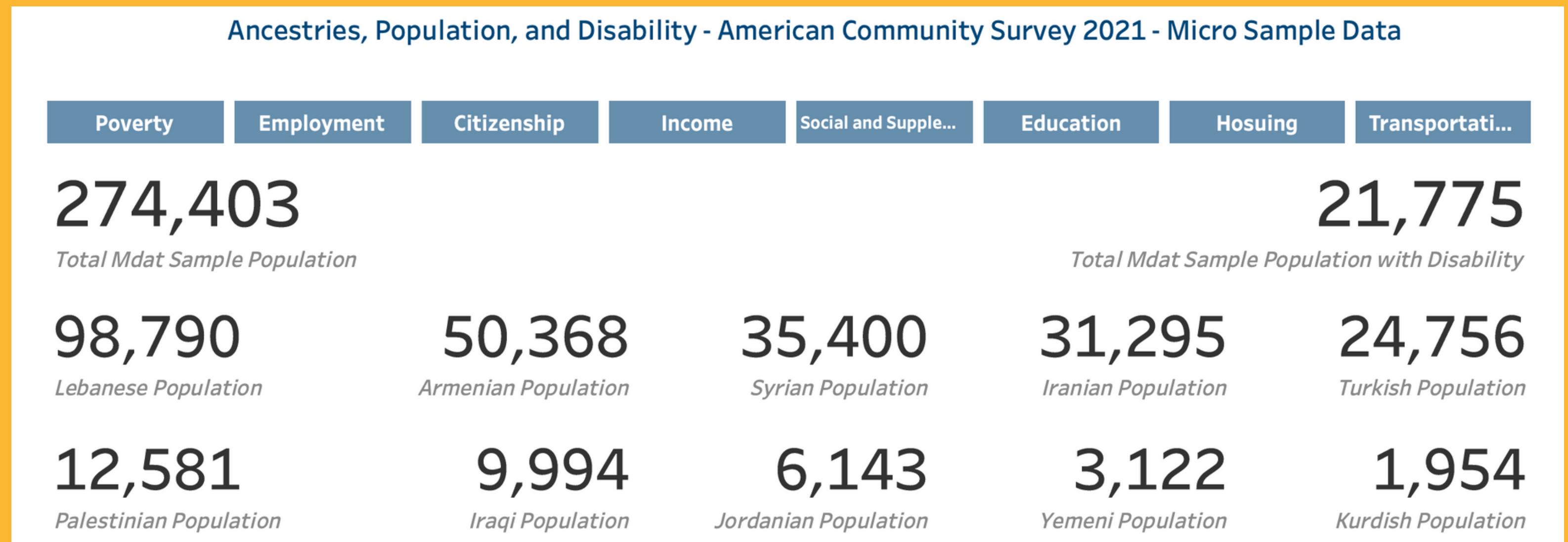
Statement of Work

Using public data sets to run data analytics to show employment disparities among people with disabilities from diverse ethnic and racial backgrounds.

Value to Client

The value of this project to our client lies in the insights we provided regarding employment disparities among people with disabilities of Middle Eastern ancestry.

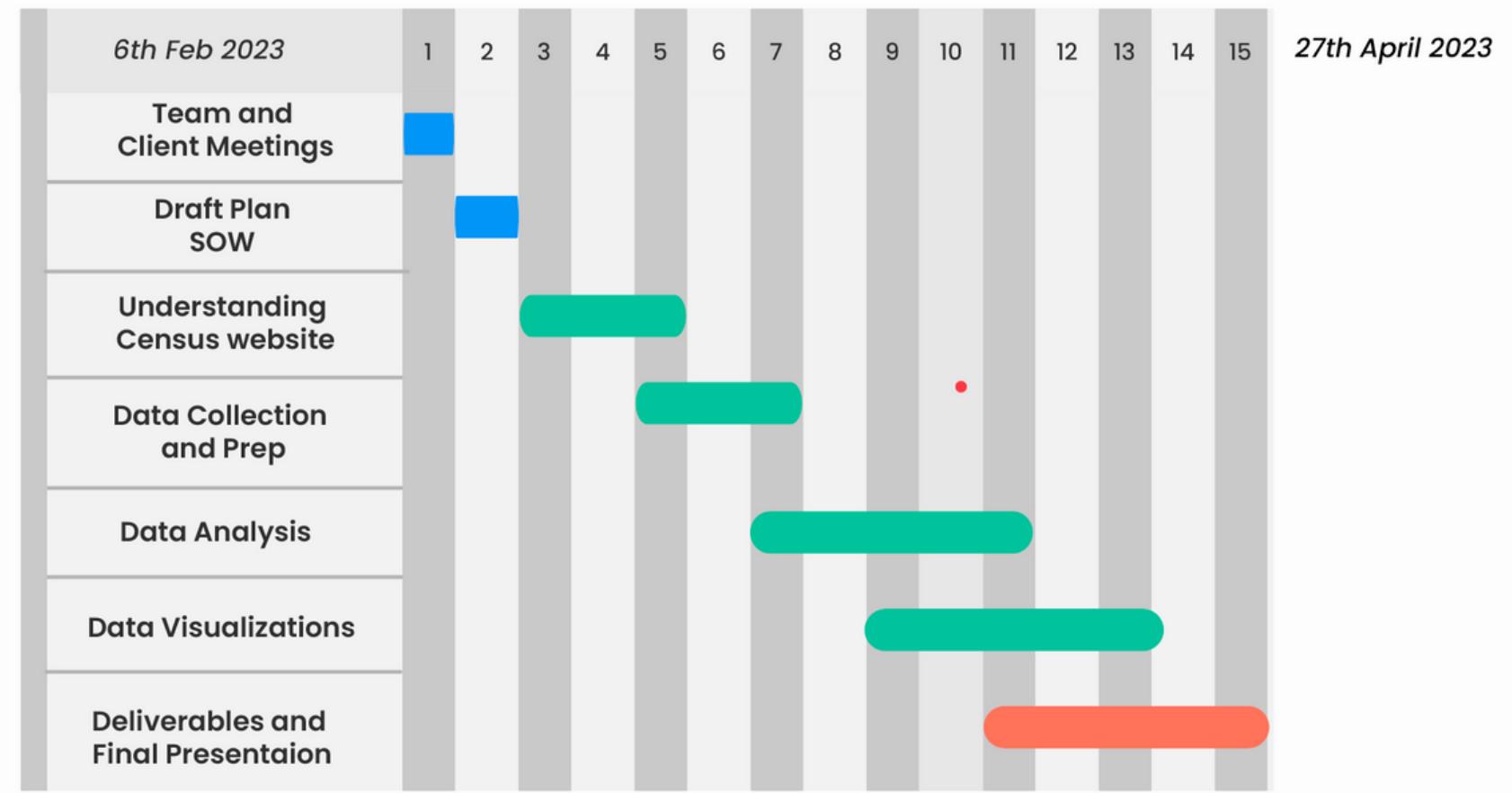
With data visualizations, we created our BI Solutions from the latest 2021 American Community Survey Micro Sample data that our client use in her research.



GANTT CHART

IDS 560 Analytics Analytics Strategy and Practise | Team 7

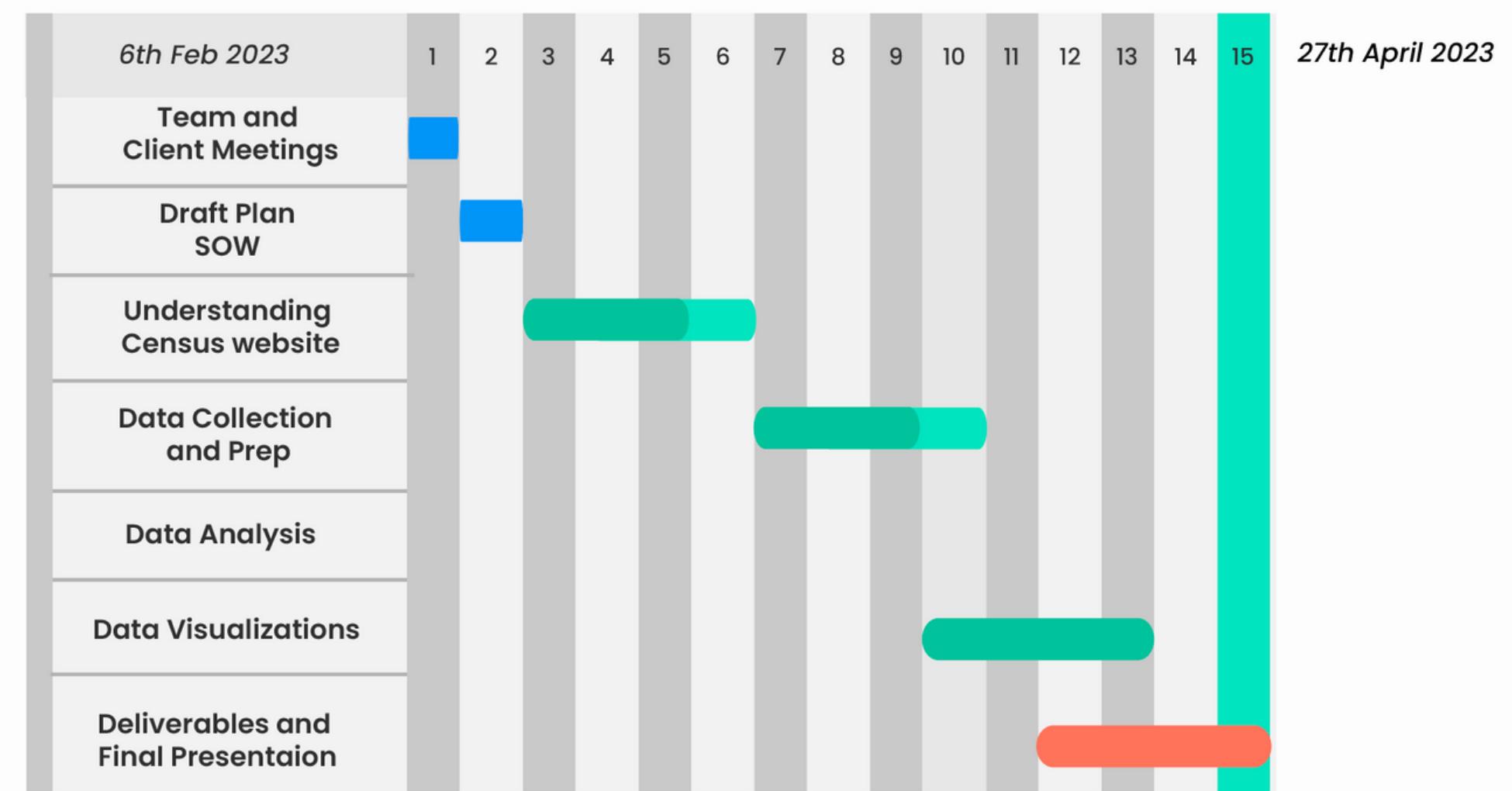
Employment Disparities Among People with Disabilities from Diverse EthnicBackgrounds



UPDATED GANTT CHART

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Employment Disparities Among People with Disabilities from Diverse EthnicBackgrounds



SOLUTIONS

We have built our BI solutions to address the disparities in the following manner.

- Demographics, Distribution, and disabilities which are prevalent in Middle Eastern Ethnic Backgrounds.
- Create comparison reports on people with Disabilities and No Disabilities on
 - Education
 - Employment
 - Income
 - Poverty
 - Housing
 - Social Security and Supplemental Income
 - Citizenship
 - Transportation Type
 - Insurance Type

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To tableau!

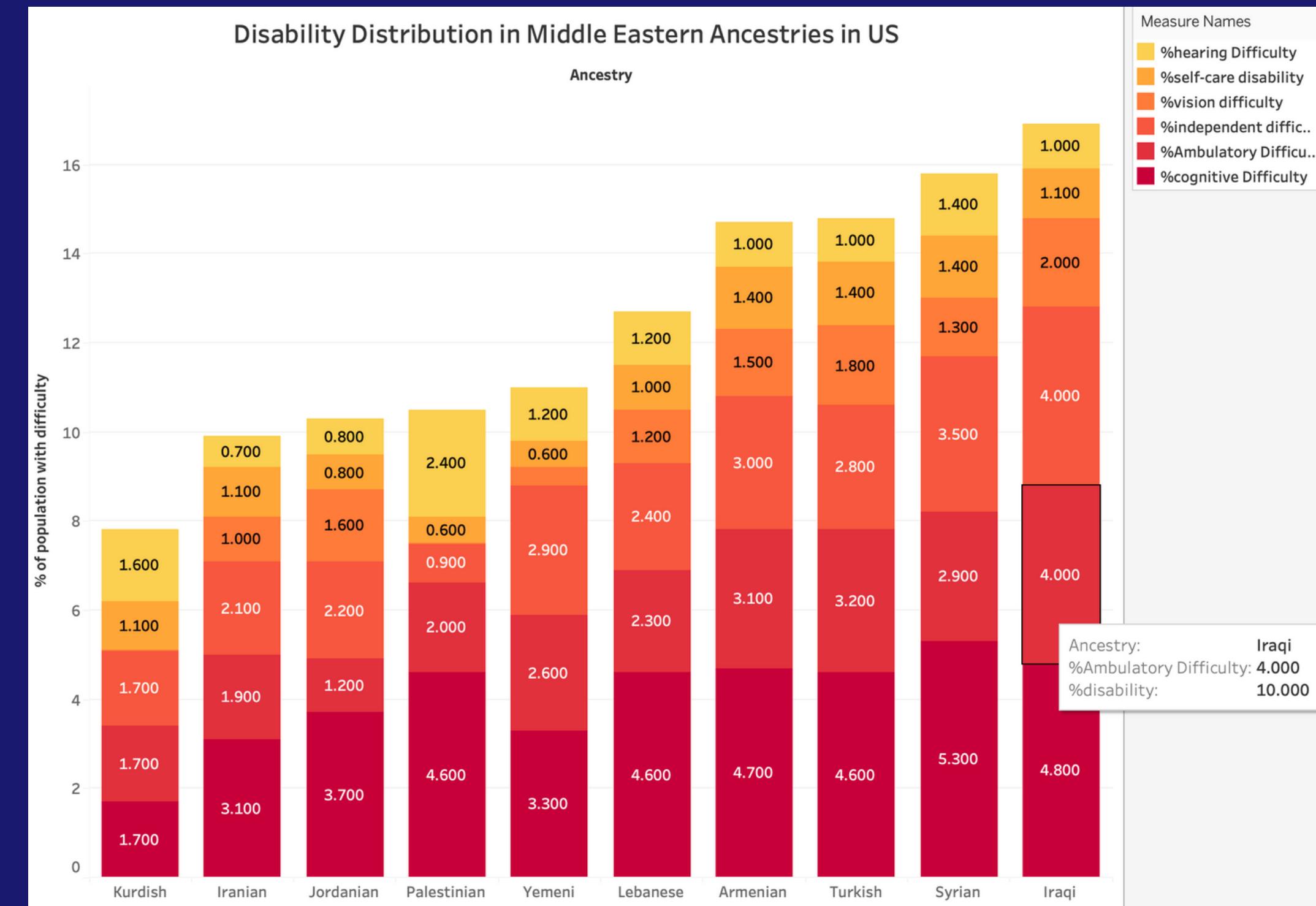
FINDINGS IN US DATA

Demographics

274,403				21,775
<i>Total Mdat Sample Population</i>				<i>Total Mdat Sample Population with Disability</i>
98,790	50,368	35,400	31,295	24,756
<i>Lebanese Population</i>	<i>Armenian Population</i>	<i>Syrian Population</i>	<i>Iranian Population</i>	<i>Turkish Population</i>
12,581	9,994	6,143	3,122	1,954
<i>Palestinian Population</i>	<i>Iraqi Population</i>	<i>Jordanian Population</i>	<i>Yemeni Population</i>	<i>Kurdish Population</i>

- Lebanese is with highest, Kurdish is with lowest population
- Iraqi has the highest, Kurdish has the lowest % of disable people
- Many people have multiple disabilities
- Cognitive disability is highest in all the ancestries with an average of 4% in each

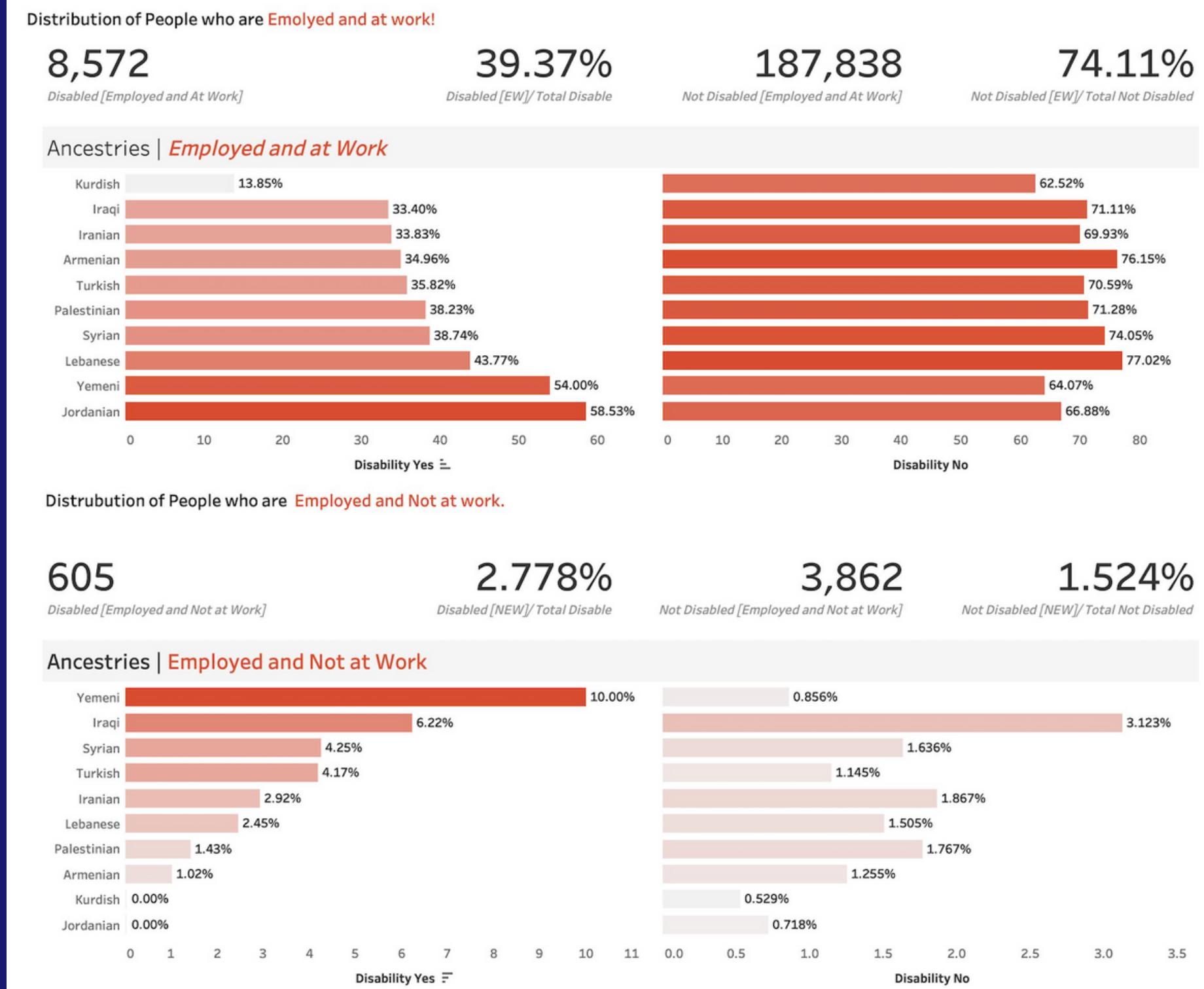
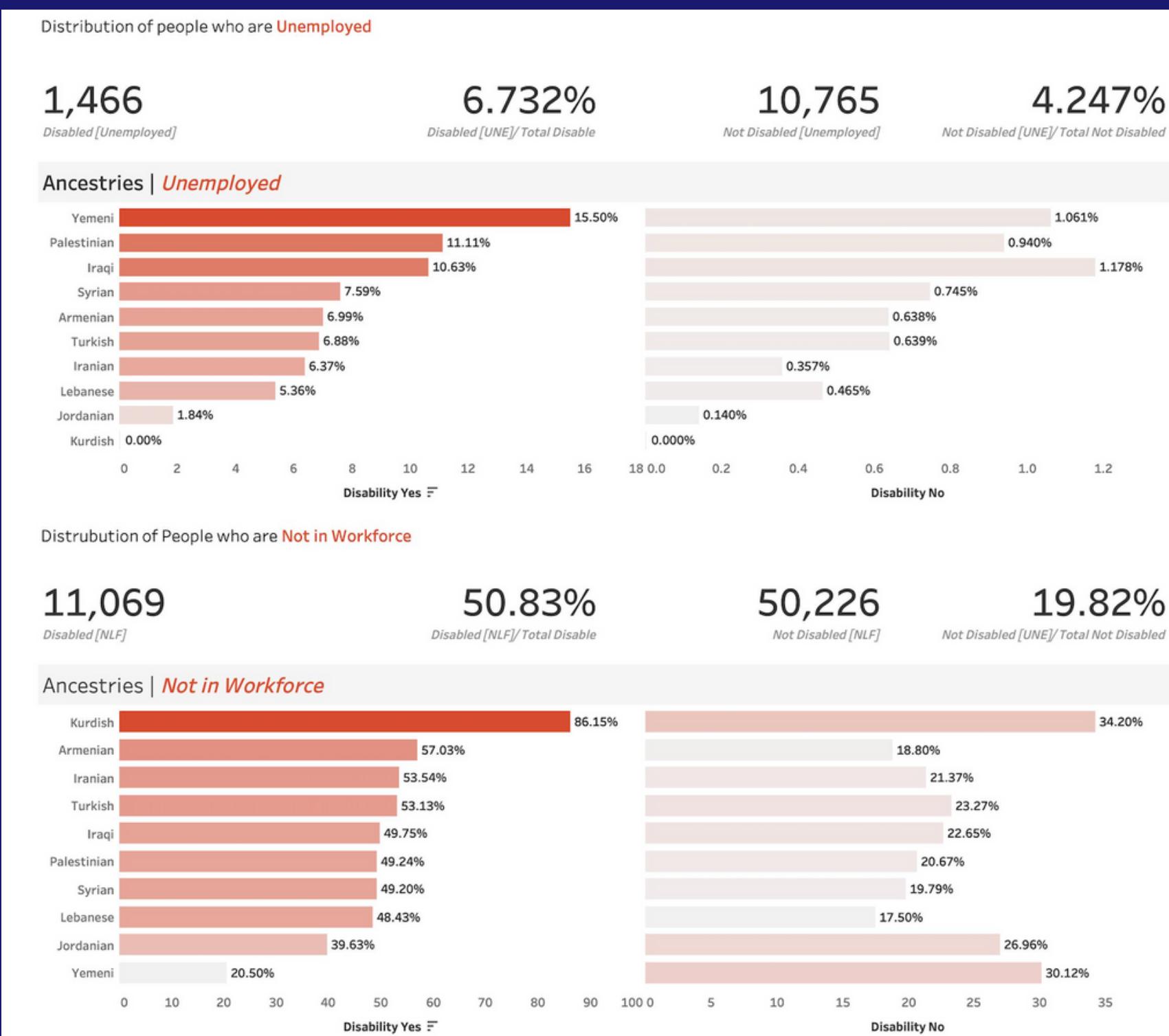
Disability



FINDINGS IN US DATA

Employment

- Kurdish has lowest population and low disability, but has highest about 86% of people who are not in Labor force and low employment of only 13% at work



- Jordanian is with highest % of People at work
- Yemeni has highest % of people with unemployment, not at work
- Although Lebanese has highest population about 48% of are not in labor force
- Iraqi has the highest, disable people, but only 33% of are at work , 50% are not even in labor force.

FINDINGS IN US DATA

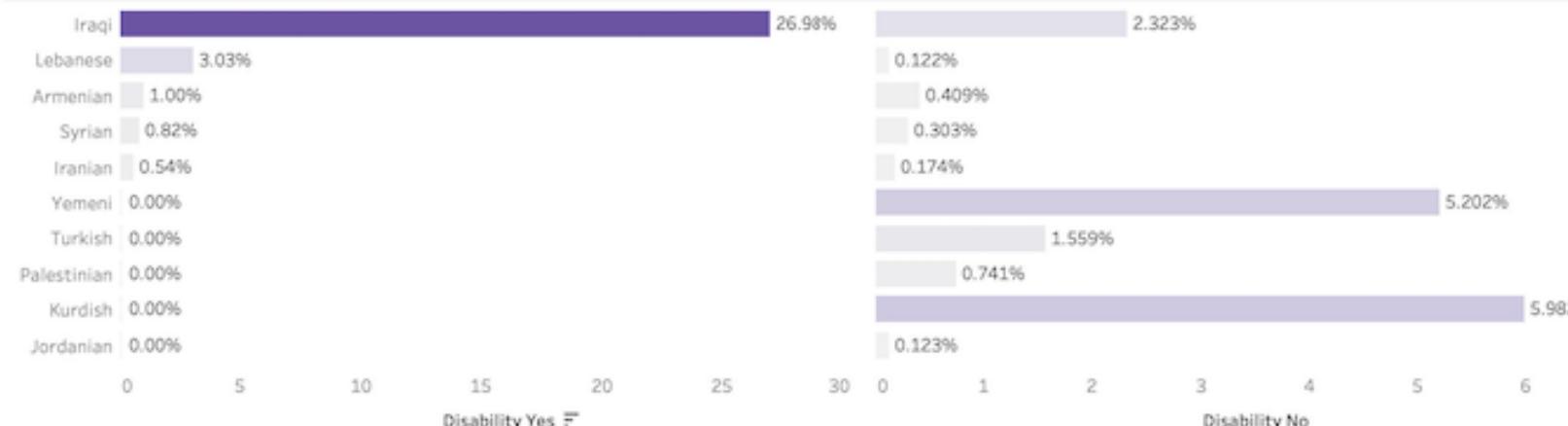
Education

- Iraqi has highest % of disable people and also they have highest % of people without any kind of education
- Yemeni has highest % of people with UG and also they are one of the highest % of disabled people who are at work

How many people have No School Education?



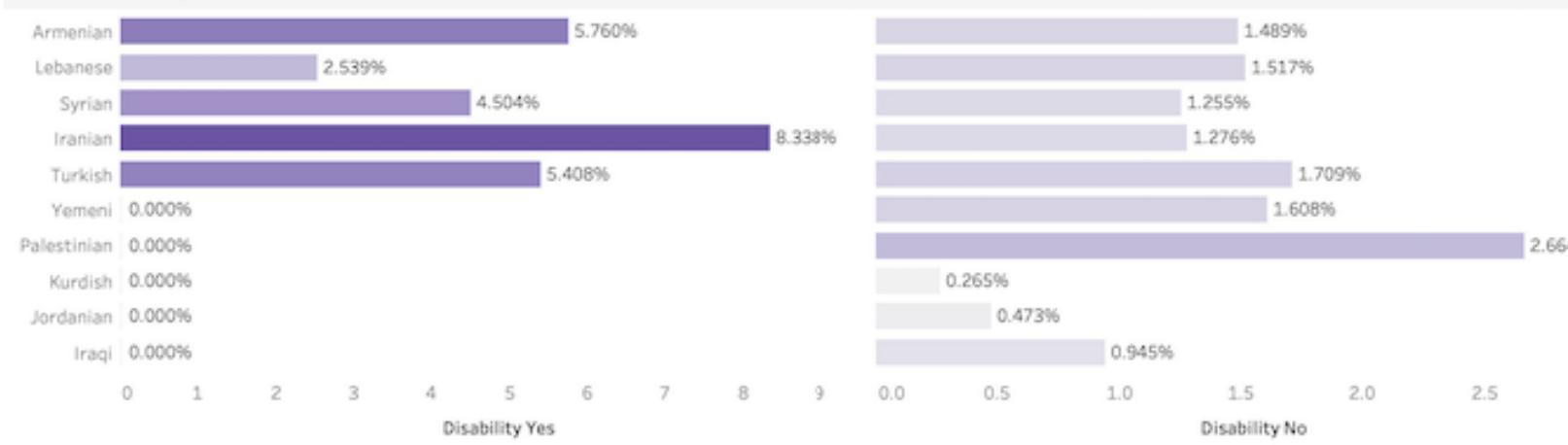
Comparison | Ancestries and No Education



How many people have GED Qualifications?



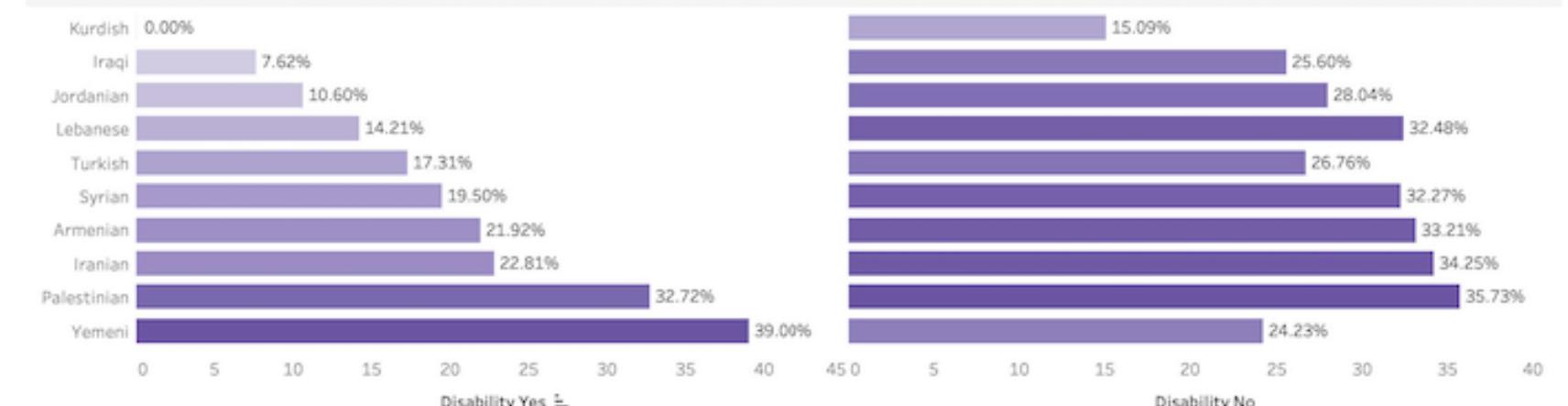
Comparison | Ancestries and GED



How people have UG Qualifications?



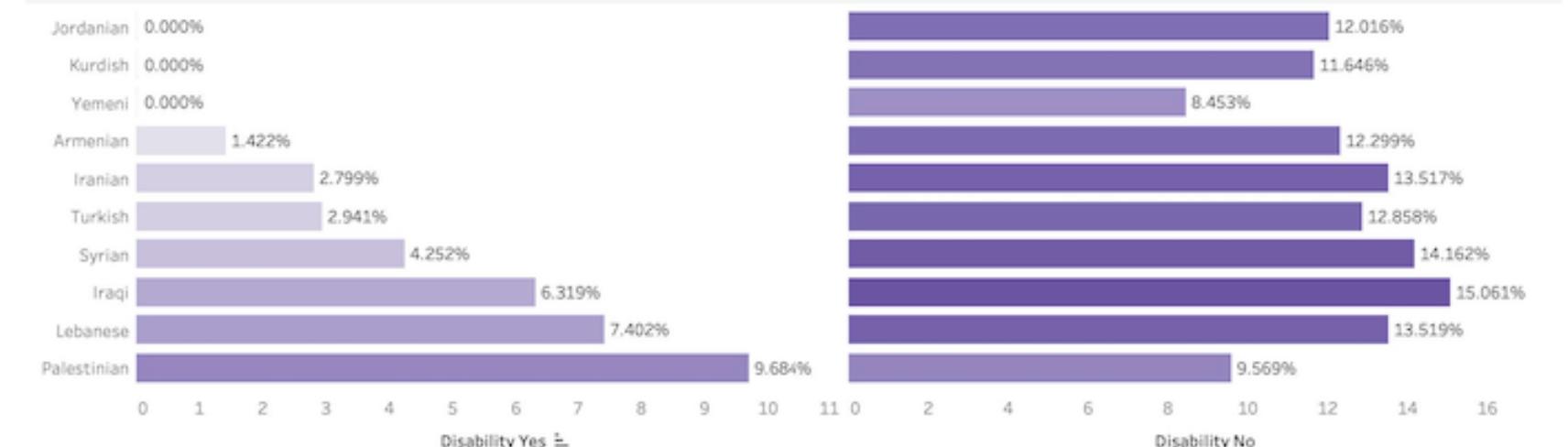
Comparison | Ancestries and UG Education



How people have PG Qualification?



Comparison | Ancestries and PG Education

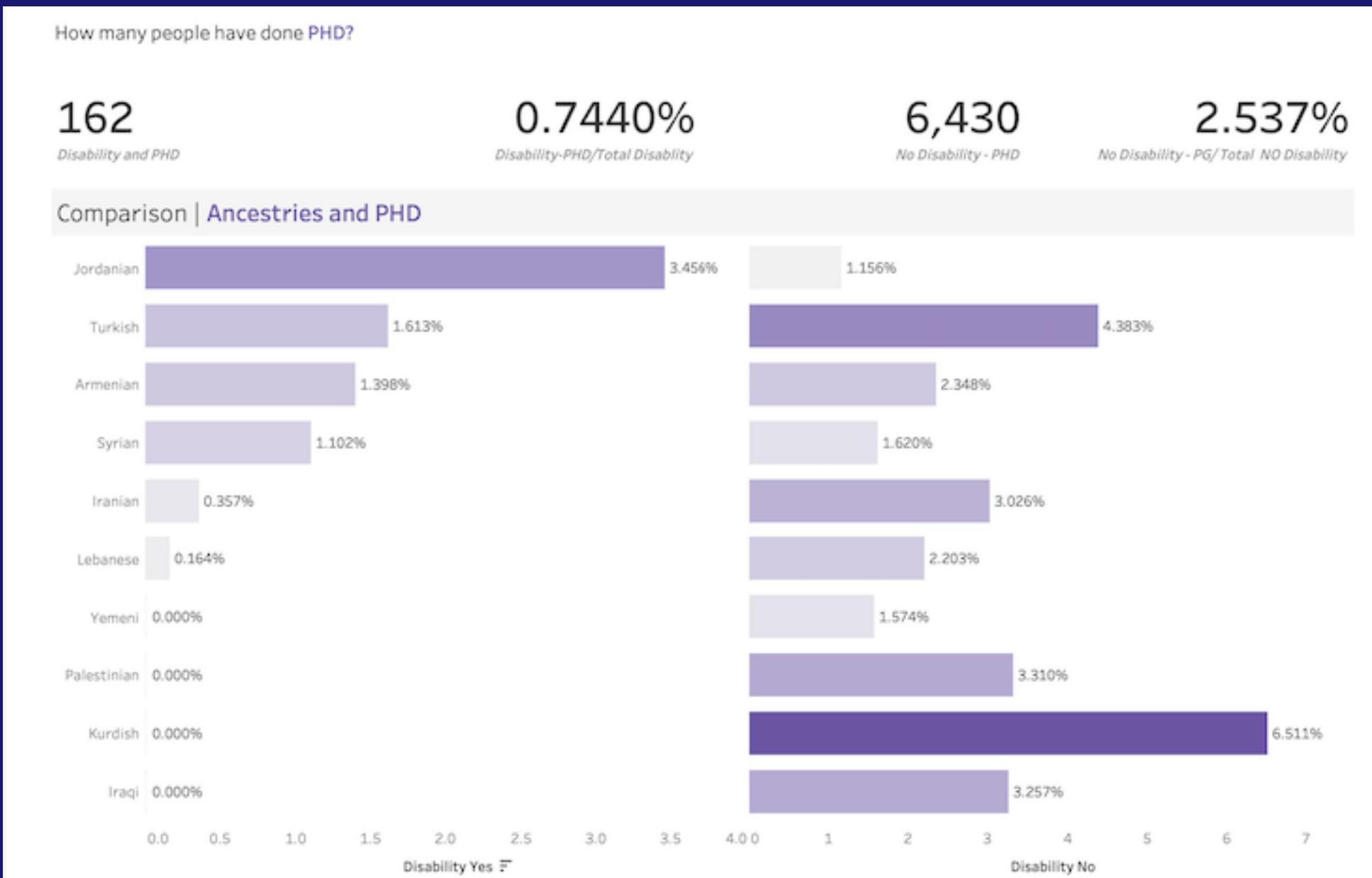


- Jordanian is with highest % of People at work, but with lowest in education
- Yemeni has highest % of people with unemployment, not at work, but they have highest% of people with UG degree
- Lebanese has highest population, also they are one of the top ancestries with master's degree

FINDINGS IN US DATA

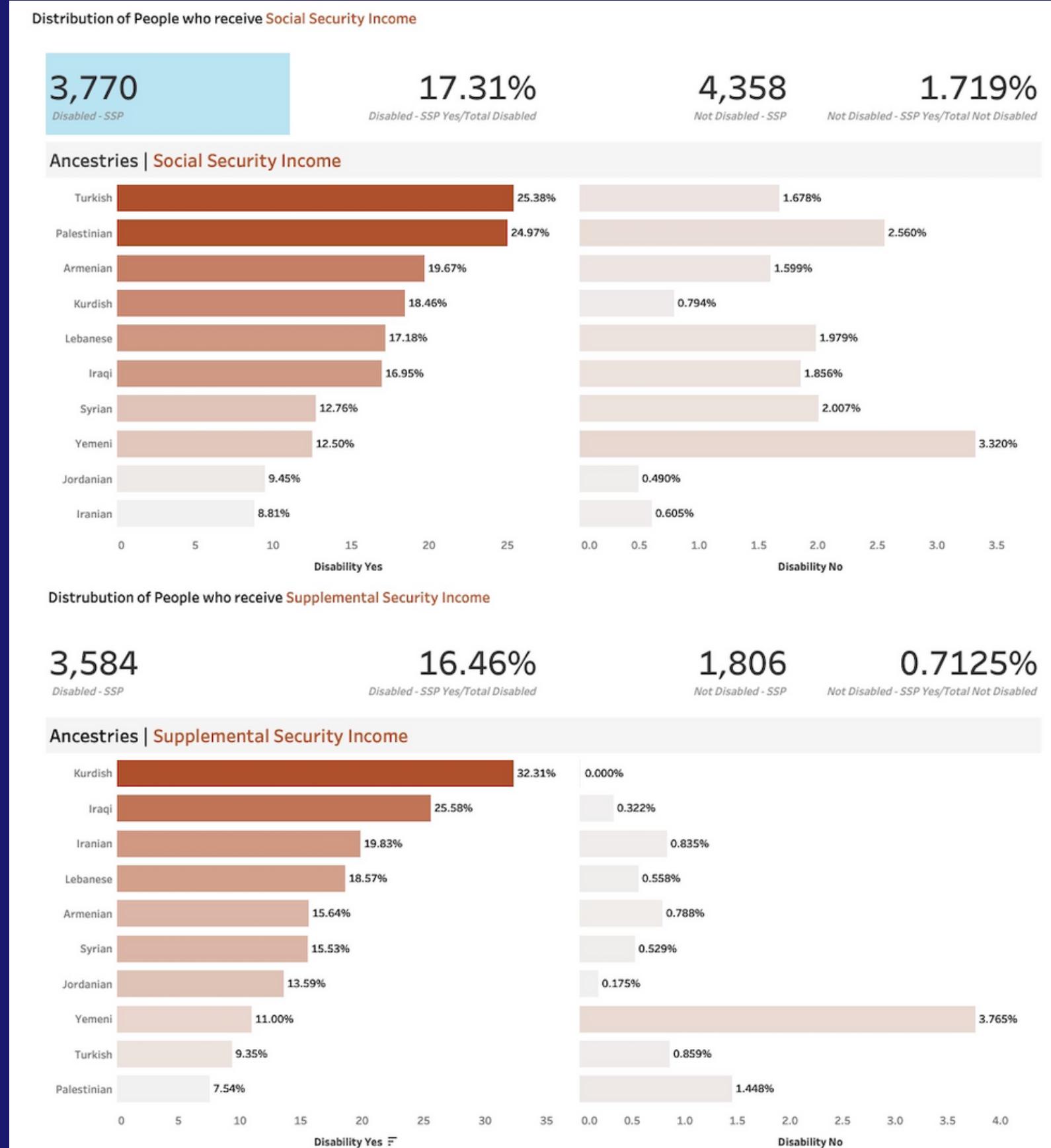
Education

- Jordanian is with highest % of People at work also highest % with Doctorates
- Iraqi has the highest, disable people, but None of them have a doctorate
- Even with highest population Lebanese do not have many people with and without disabilities Doctorate degrees



- Iraqi has the highest, disable people, but % of people obtaining both kinds of social security benefits are low
- Kurdish has Lowest disable people but they are highest % of people availing SSIP benefits

Social Security Benefits



DELIVERABLES

20 BI Dashboards | United States and Illinois



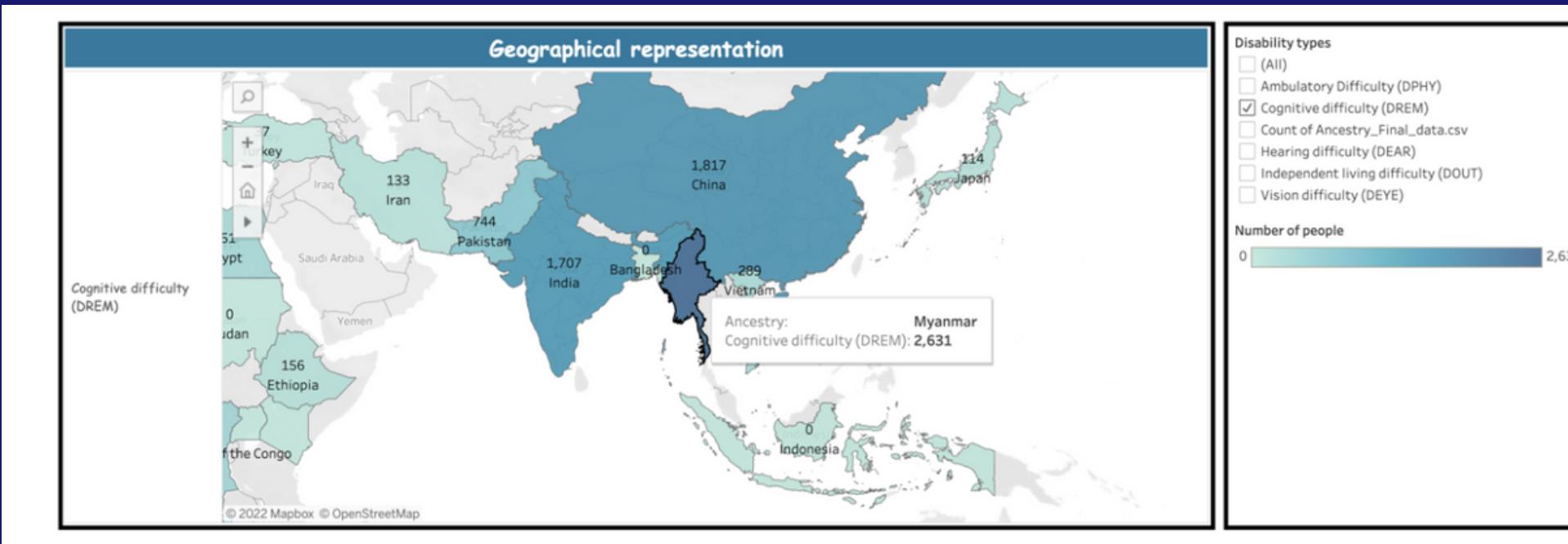
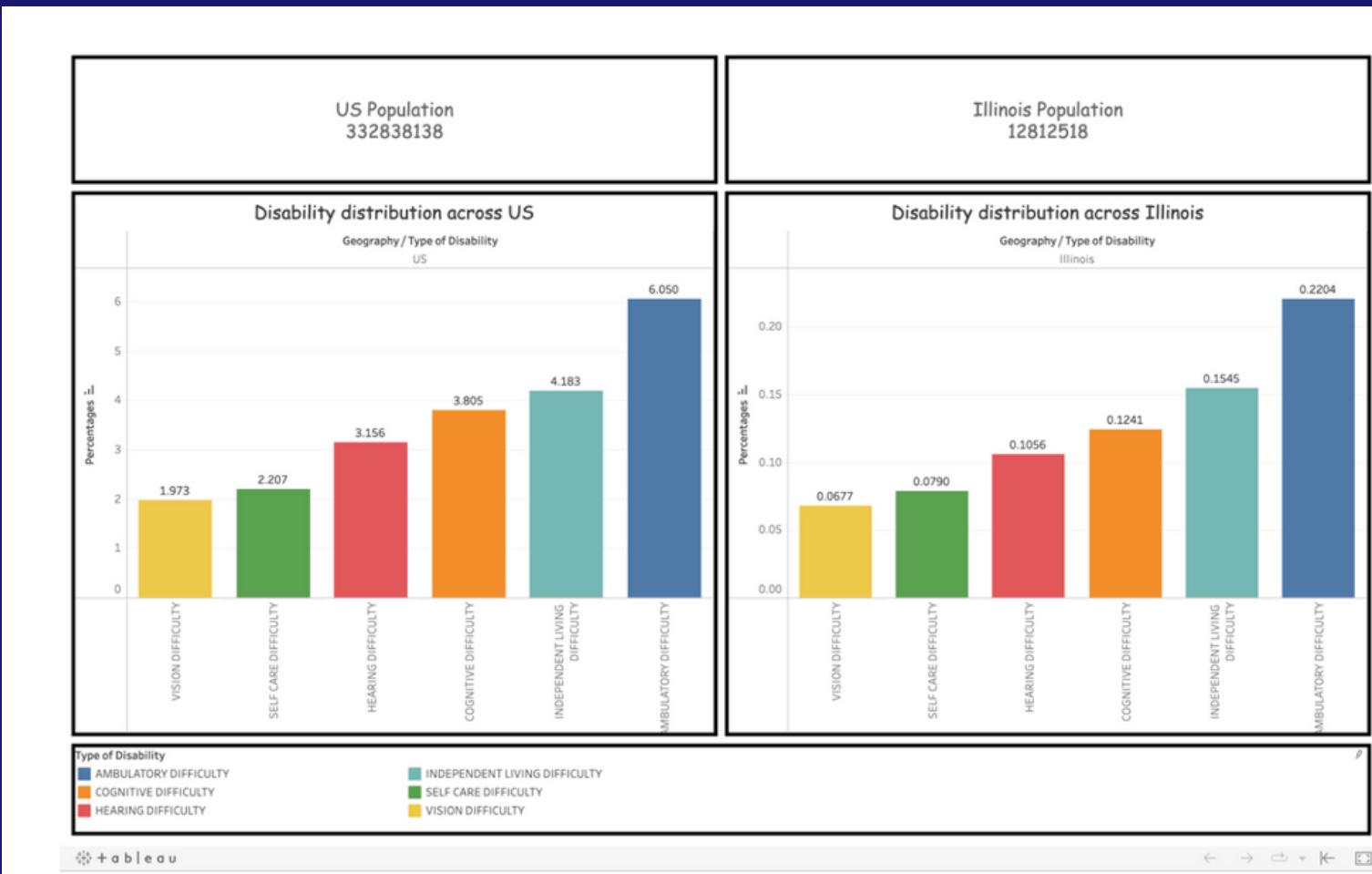
A Data Variables	B Description	C Census Variable
Ancestry Vs Transportation IL & US		
Ancestry	Ancestry Recode Second Entry	ANC2P
Commuter Modes	Modes of Transportation used	JWTRNS
Race Vs Ancestry IL & US		
Race	Recoded Race Code Third Entry	RAC3P
Ancestry	Ancestry Recode Second Entry	ANC2P
Language @IL & US		
Langauge Spoken at Home(LANP)	Language Spoken at Home	LANP
Count @US	No.of People Speak this language at home	Count
% Weight	% of People Speak this language at home	Count/Total Count
US & IL DATA		
Ancestry	Ancestry Recode Second Entry	ANC2P
Total Population	Total Sampled Population	
Males	No. of Males in the Sample	
Females	No. of Females in the Sample	
With a Disability(DIS_YES)	No. of People with Disability	DIS
DIS_YES_Males	No. of Males with Disability	
DIS_YES_Females	No. of Females with Disability	
Without a Disability(DIS_NO)	No. of People without Disability	DIS
DIS_NO_Males	No. of Males without Disability	
DIS_NO_Females	No. of Females without Disability	
Self-care Disability(DDRS_YES)	No. of People with Self-care Disability	DDRS
DDRS_YES_Males	No. of Males with Self-care Disability	
DDRS_YES_Females	No. of Females with Self-care Disability	
Without Self-care Disability(DDRS_NO)	No. of People without Self-care Disability	DDRS
DDRS_NO_Males	No. of Males without Self-care Disability	
DDRS_NO_Females	No. of Females without Self-care Disability	
Ambulatory Difficulty(DPHY_YES)	No. of People with Ambulatory Disability	DPHY
DPHY_YES_Males	No. of Males with Ambulatory Disability	
DPHY_YES_Females	No. of Females with Ambulatory Disability	
Without Ambulatory Difficulty (DPHY_NO)	No. of People without Ambulatory Disability	DPHY
DPHY_NO_Males	No. of Males without Ambulatory Disability	
DPHY_NO_Females	No. of Females without Ambulatory Disability	
Cognitive Difficulty(DREM_YES)	No. of People with Cognitive Disability	DREM
DREM_YES_Males	No. of Males with Cognitive Disability	

A robust Excel file developed from the 2021 American Community Survey MicroData.

- Both for the United States and Illinois

A report explaining the different findings based on BI reports.

HOW IS OUR PROJECT DIFFERENT FROM PREVIOUS SEMESTER



These are three dashboards they built. They are looking at demographics and employment.

No comparison reports with people with no disability.

Further Study

- LOOKING INTO EACH DISABILITY SEPARATELY AND SEEING HOW EACH METRIC CHANGES.
- THEN GOING A LEVEL DEEPER, HOW GENDER PLAYS A ROLE AND IDENTIFY THE TRENDS.
- GROUPING TWO OR MORE VARIABLES TOGETHER TO IDENTIFY CO-RELATION OR CONTRIBUTING FACTORS FOR DISPARITIES

WE HAVE INCLUDED ALL THE DATA FOR THE ABOVE STUDIES IN OUR EXCEL FILE.

CONCLUSION SLIDE

- We gained some very interesting insights from our analysis.
- Although our Tableau workbooks, excel files, and report give an in-depth analysis, we can highlight a few points.
- Non-citizens who are disabled are less likely to have health insurance.
- People with disabilities tend to be less educated than their non-disabled counterparts.
- Disabled people who are of Jordanian ancestry tend to have low incomes.
- Turkish people with disability tend to collect the highest social security income.
- We took the project forward from the team that worked on it the previous semester, and even though we had limited analysis on our hands, we were able to dig deep from our end and do an in-depth analysis that will give an excellent base to any team who takes this analysis further.

Thank you for listening!