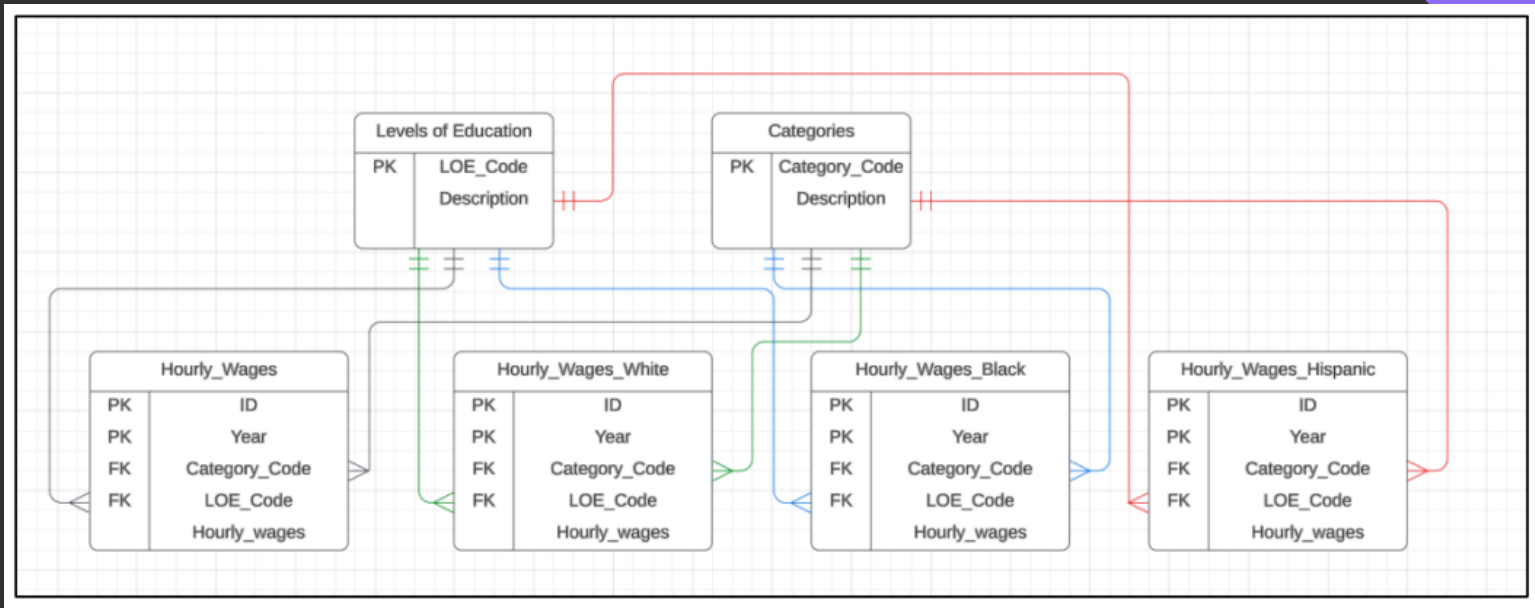




ER Diagram

Converting the original dataset into six tables





The background is a dark charcoal gray. It features several abstract geometric elements: a large teal shape in the top-left corner with a black diagonal line; an orange rounded rectangle in the top-center; a large purple circle in the bottom-left with a black diagonal line; a purple rounded rectangle in the bottom-right; and a teal rounded rectangle in the bottom-right. In the top-right, there is a small purple square, a small orange triangle, and three horizontal teal wavy lines. In the bottom-center, there is a small orange square, a small teal circle, and a small purple triangle.

Data



Data

6 Tables in total

Parameters

Levels of education (Less_HS, HS, Some_college, bachelors degree, advanced degree)

Category: General, Men, Women









Business Questions



01

In which year, category and level of education were the hourly wages highest for overall population?



Insight




The highest hourly wage for the overall population was \$64 per hour for men with a advanced degree in the year 2021.





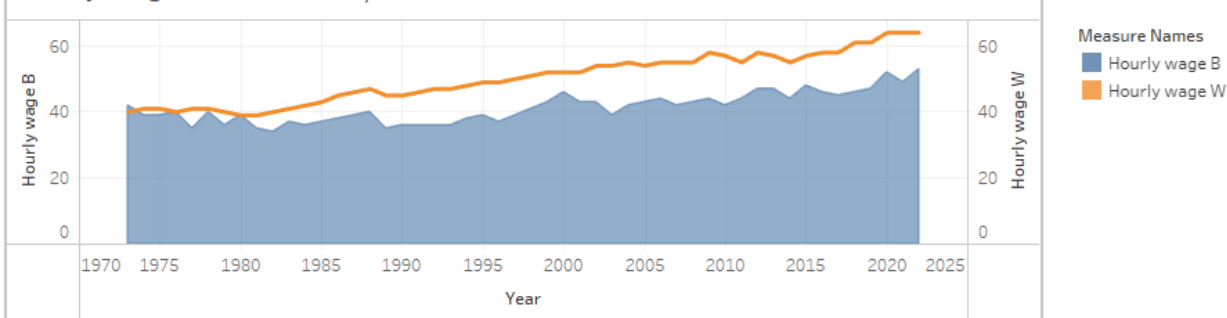
02

Is average hourly_wage for white men having an advanced degree more than hourly_wage for black/Hispanic men having an advanced degree over the years?

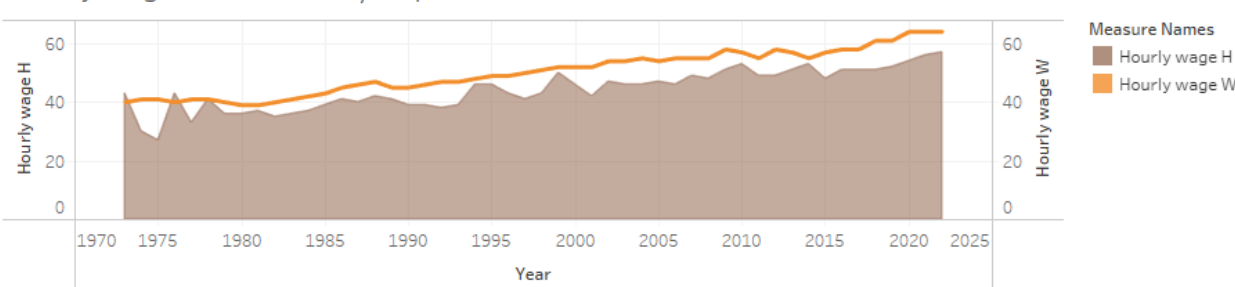


Insight

Hourly Wage for white men/Black men



Hourly Wage for white men/Hispanic men







- hourly wage for white men only differs with hourly wage of black men.
- No difference in hourly wage of white men with advanced degree compared to hourly wage of Hispanic men with advanced degree.



03


Is there a year where hourly_wage for men and women were same? If not, which category is paid less?





Insight



From the data we find out that hourly wages were less for males as compared to females across all years and across all levels of education





04

Which year has the highest difference in hourly wages for men and women across all levels of education and race?





Insight

From the data we find out that the maximum difference in hourly wage between male and female with advanced degrees is in the year 2022. The difference is of 20\$



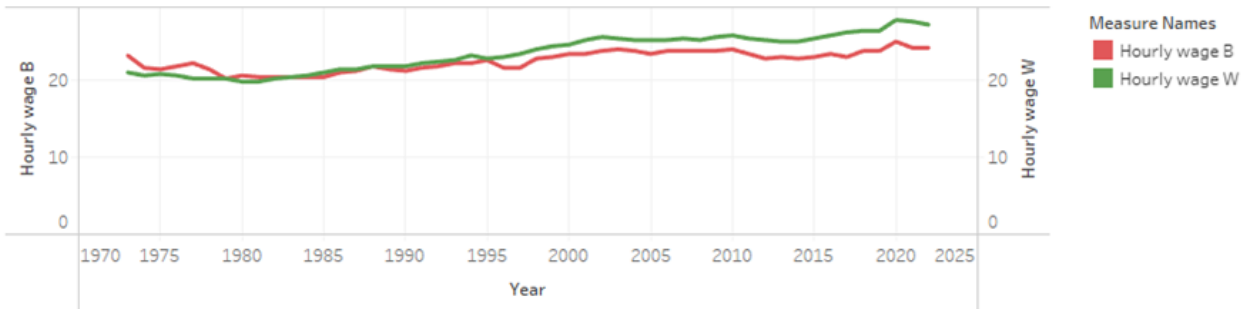
05

Have white women being getting paid more than black/Hispanic women over the years?

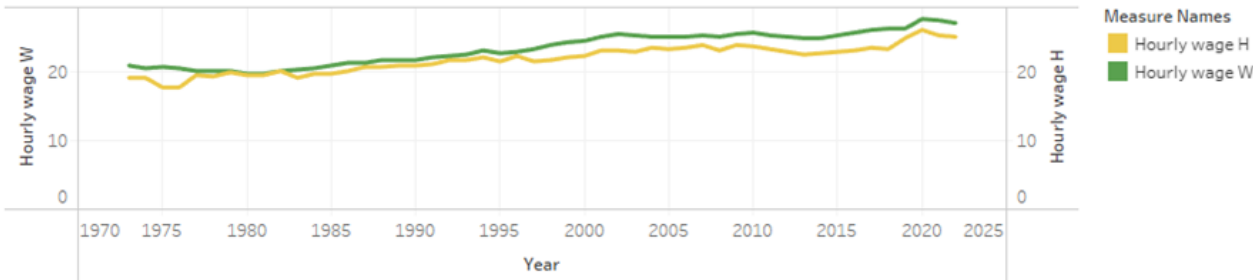


Insight

Hourly Wage for white women/Black women



Hourly Wage for white women/Hispanic women







- Hourly wage for white women is more than hourly wage for black and Hispanic women
- Overlaps in both the graphs from years 1980 to 1985.



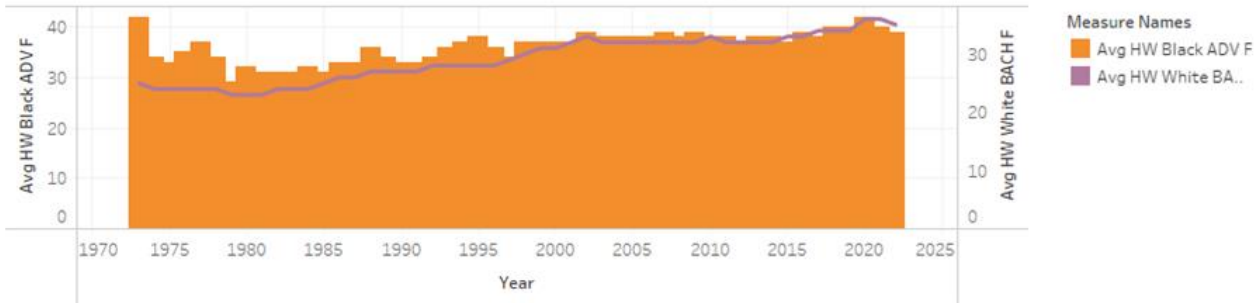
06

Does having an advanced degree increase the hourly wages for black/Hispanic women compared to white women with only bachelors degree?

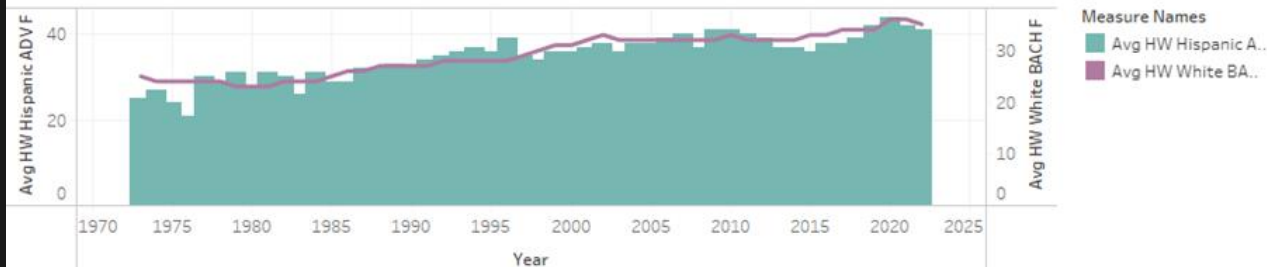


Insight

Hourly Wage for white women(Bach)/Black women(ADV)



Hourly Wage for white women(BACH)/Hispanic women(ADV)





- Hourly wages in 1970s: more for black women than white women
- Contrary to that hispanic women were paid less in 1970s as compared to white women



07

What level of education gives the maximum jump in hourly wages for the entire population?





Insight





From the data we can see that getting an advanced degree gives a jump of \$36





o8


Is there a year where black/Hispanic men with advanced degree were getting paid more than white men with advanced degree?





Insight

We infer that there are two years (1976 and 1973) in the past 50 years where hourly wage for white men with advanced degree was less than hourly wage for Hispanic/Black men with advanced degrees.





Thank You