IN EXCEL

1. MANUALLY ADDED HEADER FOR EACH COLUMN

FOR THAT FIRST I INSERTED FIRST ROW WITH INSERT SHEET ROWS AND ADDED COLUMN NAMES.

1. REMOVED ALL THE DUPLICATES.
2. ADDED ALL THE BLANK SPACE WITH AVERAGEIF VALUES OF THOSE COLUMN

THE COLUMNS ARE (CRIM,ZN,CHAS,AGE,RAD,TAX)

1. ADDED A NEW COLUMN TO SET A PRICE CATEGORY AS (PREMIUM,MID,AFFORDABLE)

IF MEDV>30 THAT IS >$30000 THEN PREMIUM

IF MEDV>15 THAT IS >$15000 THEN MID

IF MIDV<15 THEN AFFORDABLE

1. ALSO ADDED COLUM AGE CATEGORY

IF AGE>70 OLD,IF >30 ADULT AND <30 STUDENT

Power bi

1.I loaded the data

2. Then in transform data I changed datatype of new crim,new zn,new chas,new age,new rad,new tax

3. with the help of new measure I created some dax queries

To count total number of houses I used(Total Houses = COUNTROWS('housing-unclean))

To calculate the average age I used(Average Age = AVERAGE('housing-unclean'[NEW AGE]))

To count average rooms I used(Average Rooms = AVERAGE('housing-unclean'[RM]))

To calculate average tax I used(Average Tax = AVERAGE('housing-unclean'[NEW TAX]))

To calculate average lstat I used (Average LSTAT = AVERAGE('housing-unclean'[LSTAT]))

To calculate average distance to jobs I used(Average Distance = AVERAGE('housing-unclean'[DIS]))

4.Now I created different visuals

I used card to calculate Total number of housed in the dataset.

I used Multi-Row Card to check different KPIs for age,room,tax,distance

I used clustered column chart to know about How average number of rooms varies with house age.

I used donut chart to know about How many houses are near the river (CHAS = 1) vs not.

I used matrix to show CHAS × AGE CATEGORY, Avg Rooms

I used gauge chart to know How average tax compares to a fixed scale.

I used clustered column chart to know How many houses are there in each age category

5.Then I used filters to change color of background and also change colors for visuals created, also added visual border.

6.With help of text box I created a title name for this dashboard.

7. I added buttons right arrow, left arrow to navigate the pages.

8.I created bookmarks show the number of houses for each age category.

I also added a blank button for drill through, and with that button it shows for each age category how many houses are available and also tells whether the price is Affordable, Mid,or Premium.