

# Population Census Literacy Analysis in India (2001 & 2011) Using Power BI

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## Chapter 1

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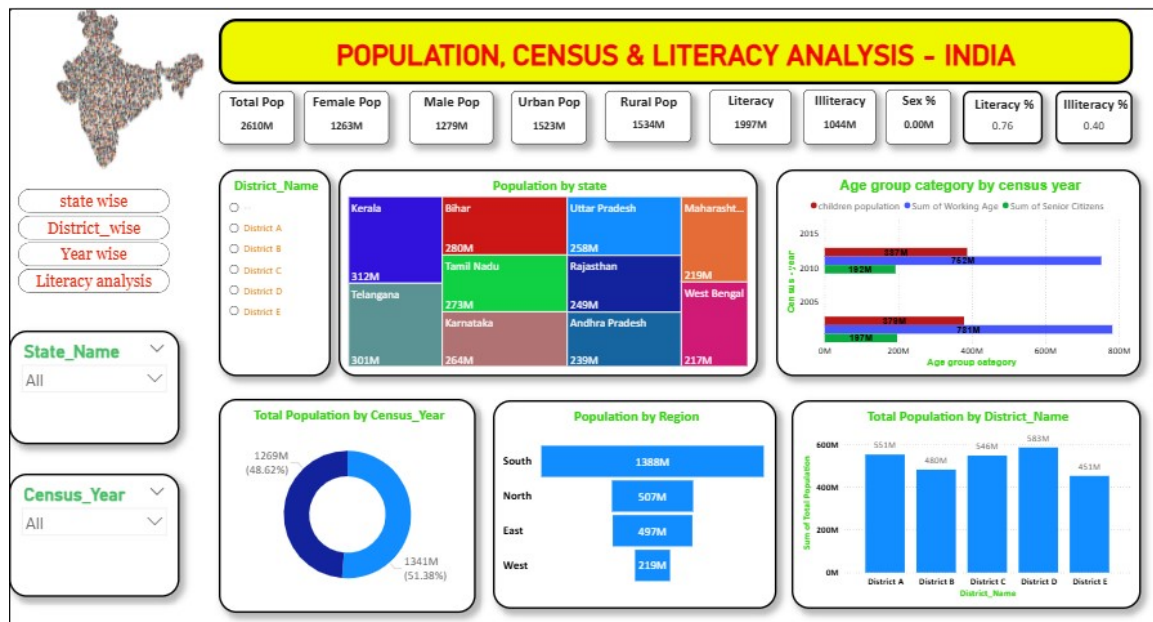
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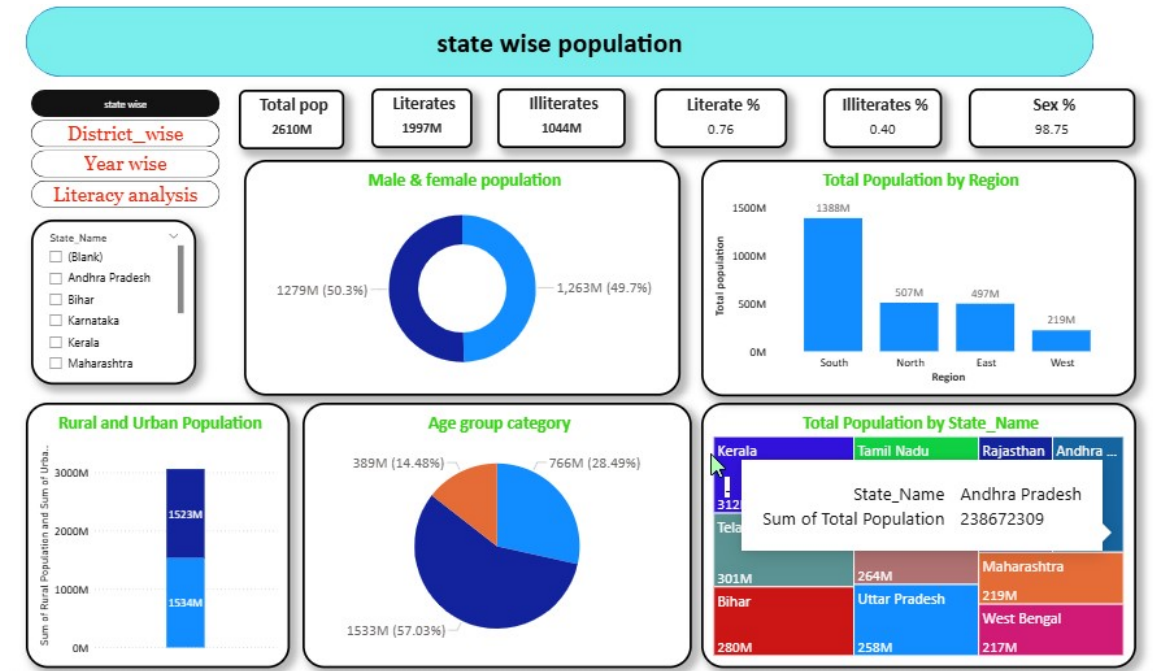
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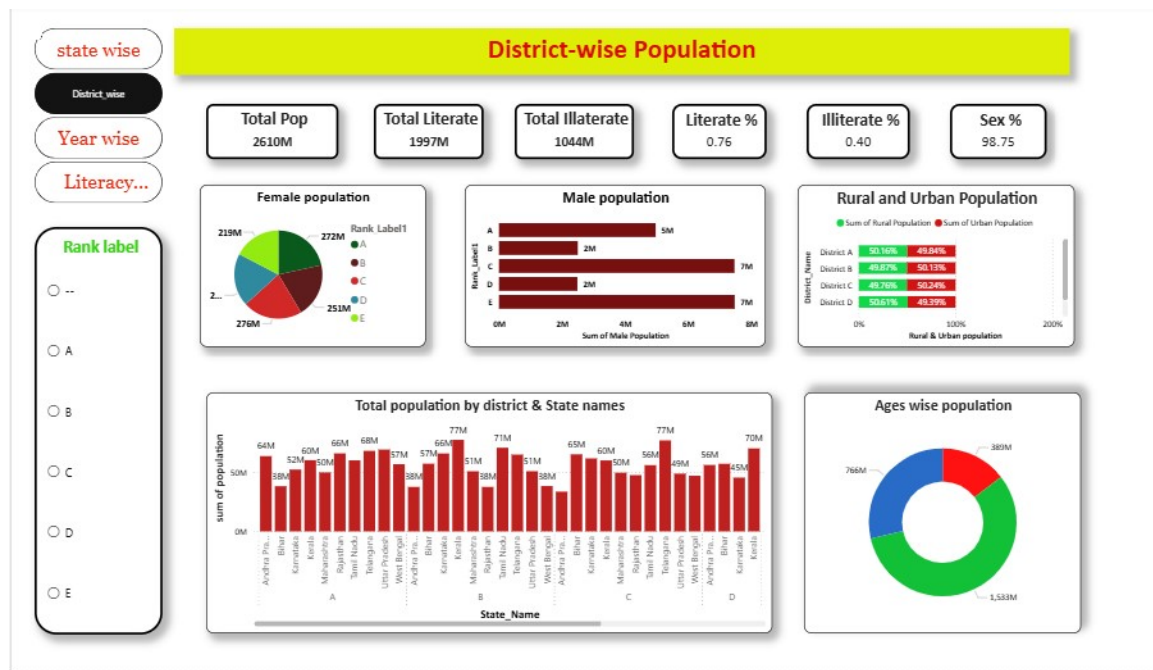
## DASHBOARD:POPULATION,CENSUS& LITERACY ANALYSIS- INDIA



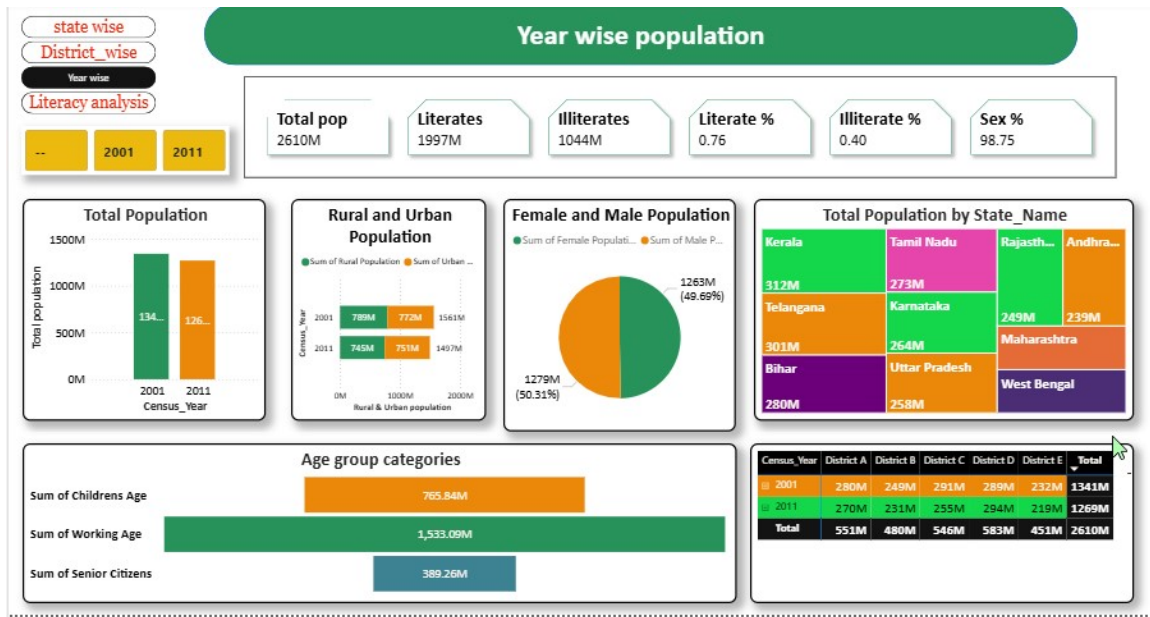
## DASHBOARD: STATE WISE POPULATION



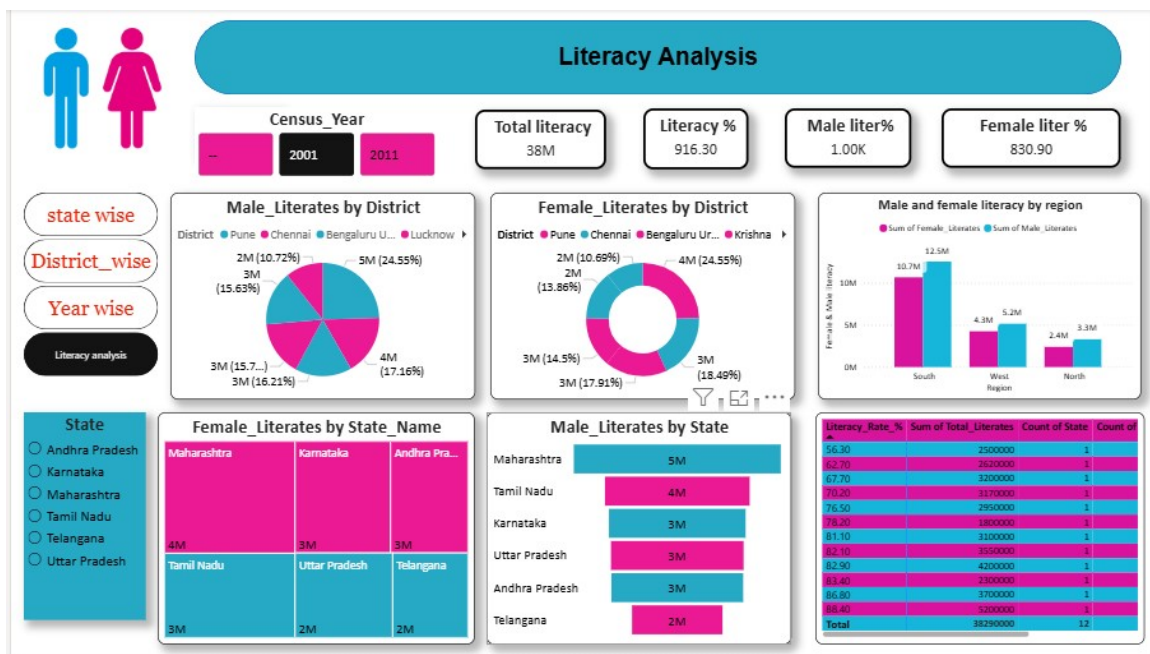
## DASHBOARD: DISTRICTWISE POPULATION



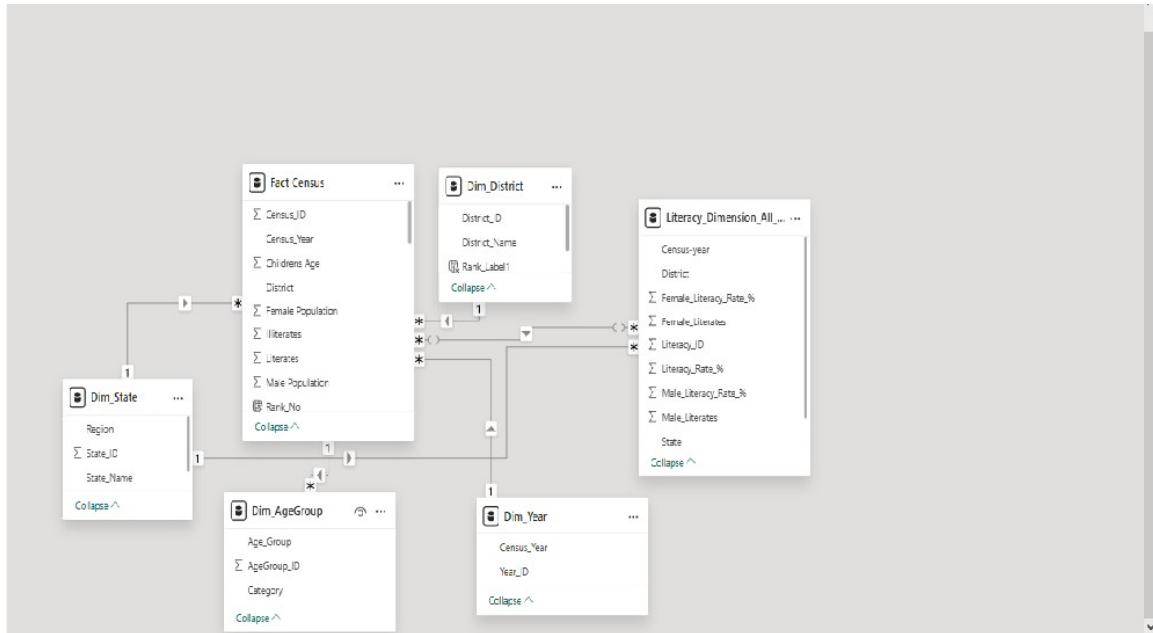
## DASHBOARD: YEAR WISE POPULATION



## DASHBOARD: LITERACY WISE POPULATION



## DATA MODELING : STAR SCHEMA



### DAX FUNCTIONS:

children population =  $\text{SUM}(\text{'Fact Census'['Childrens Age']})$

children% =  $([\text{children population}]/[\text{Total\_population}])*100$

Female population% =  $([\text{Female\_population}]/[\text{Total\_population}])*100$

Female\_population =  $\text{sum}(\text{'Fact Census'['Female Population']})$

Gender ratio% =  $([\text{Female\_population}]/[\text{Male\_population}])*1000$

Highest Population =

$\text{MAX}(\text{'Fact Census'['Total Population']})$



Highest Population State =

VAR MaxPop =

MAX ( 'Fact Census'[Total Population] )

RETURN

CALCULATE (

SELECTEDVALUE ( 'Fact Census'[Total Population]),

'Fact Census'[Total Population]= MaxPop

)

Illiterate Ratio =

DIVIDE(

SUM('Fact Census'[Illiterates]),

SUM('Fact Census'[Total Population])

)

Literate Ratio =

DIVIDE(

SUM('Fact Census'[Literates]),

SUM('Fact Census'[Total Population])

)

Male population % = `SUM('Fact Census'[Total  
Population])/[Male_population]*100`

Male\_population = `sum('Fact Census'[Male Population])`

New population = `CALCULATE(SUM('Fact Census'[Total  
Population]),'Fact Census'[Total Population]=MAX('Fact Census'[Total  
Population]))`

old population = `CALCULATE(SUM('Fact Census'[Total Population]),'Fact  
Census'[Census_Year]=MIN('Fact Census'[Census_Year]))`

population growth% = `([New population]-[old population]/[old  
population]*100)`

Rank\_No =  
`RANKX(  
ALL('Fact Census'[Total Population]),  
[Total Population],  
,  
DESC,  
DENSE`

)

Rural population% = ([Rural\_population]/[Total\_population])\*100

Rural\_population = sum('Fact Census'[Rural Population])

senior citizens% = ([senior population]/[Total\_population])\*100

senior population = SUM('Fact Census'[Senior Citizens])

Sex Ratio = DIVIDE([Female\_population] , [Male\_population])\*100

Total Illiteracy Count =  
SUM ( 'Fact Census'[Illiterates] )

Total\_Illiterates = SUM('Fact Census'[Illiterates])

Urban Ratio = DIVIDE([Urban\_population] , [Rural\_population])\*100

Urban\_population = sum('Fact Census'[Urban Population])

working age population = SUM('Fact Census'[Working Age])

working age% = ([working age population]/[Total\_population])\*100

## DECLARATION

I hereby declare that the project entitled

**“Population Census Literacy Analysis in India (2001 & 2011) Using Power BI”**

is an original work carried out by me under the guidance of my project supervisor. This project work has not been submitted earlier to this or any other University or Institution for the award of any degree or diploma.

All the information, data, and analysis presented in this project are based on authentic and government-published sources, primarily the Census of India reports for the years 2001 and 2011. Wherever references have been made to the work of others, due acknowledgements have been provided.

I further declare that this project is completed by me independently and honestly, and any assistance received during the course of this work has been duly acknowledged.

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## **CLOSING PAGE / CONCLUSION & CLOSING REMARKS**

This project titled **“Population Census Literacy Analysis in India (2001 & 2011) Using Power BI”** was undertaken with the objective of analyzing and visualizing literacy and population data in a meaningful and interactive manner. By using Power BI, the project successfully transformed large and complex census datasets into clear, insightful, and user-friendly dashboards.

The comparative analysis between the census years 2001 and 2011 highlights significant improvements in literacy levels across India, while also revealing regional and district-level disparities. The study emphasizes the importance of data visualization and business intelligence tools in social and demographic analysis, enabling better understanding and informed decision-making.

This project not only enhanced technical skills such as data cleaning, data modeling, DAX calculations, and dashboard design but also provided practical exposure to applying analytical tools for real-world societal issues.

The knowledge gained through this project will be valuable for future academic pursuits and professional roles in data analytics and business intelligence.

In conclusion, the project fulfills all the stated objectives and demonstrates how modern analytical tools like Power BI can effectively support data-driven insights in government and academic research. With further enhancements such as inclusion of future census data and advanced analytics, this study can be extended to provide deeper insights into India's educational and socio-economic development.

**Prepared by: Naga Jyothi. P**

**Project : Population,census & literacy analysis**

**(2001 & 2011)Power BI Analytics**