

Finding Links between Mother's Education, Socio-Economic Status , and Child Health

(Dataset - IAKR Kids Record)



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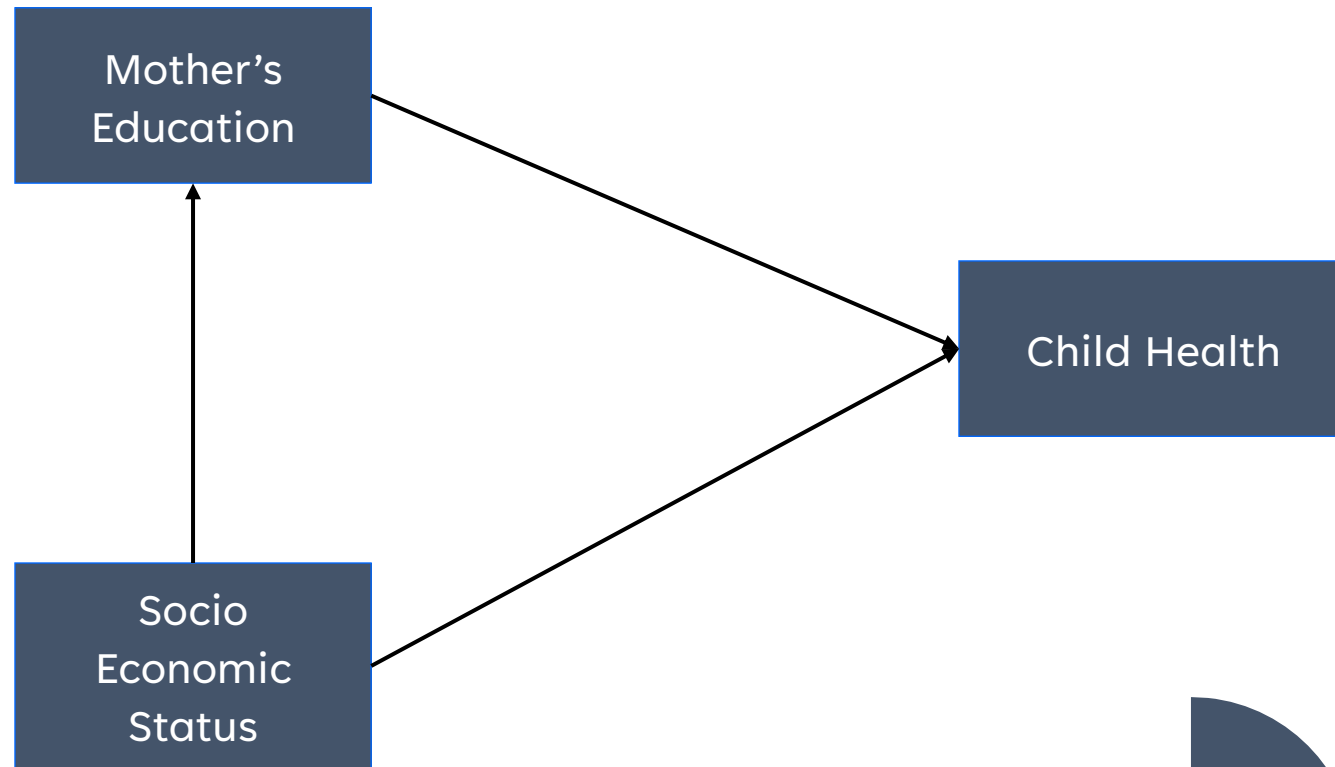
Dataset

- In this data file unit of analysis is **children under age five**, whose mothers were interviewed. It contains information about the child's immunization, health, and nutrition data. The **data for the mother of each of these children** is also included.
- This dataset looks at child health indicators such as immunization coverage, vitamin A supplementation, recent diarrhea, fever, and cough for young children and treatment of childhood diseases, nutrition of young children, and malaria prevention and treatment.

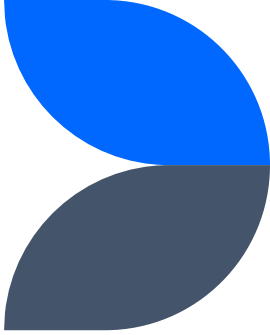
Introduction & Background

- **Malnutrition** , Among children, **52 million** under-fives are suffering from wasting worldwide, where they have a low weight for height.
- Mothers' education level & awareness seems to be a significant indicator of their children's nutritional condition. i.e. able to read medical instructions for treatment of childhood illness and apply the treatment , **educated women** seem to be more receptive to **modern medicine & transfer their health knowledge to future mother**

Constructs & Conceptualization

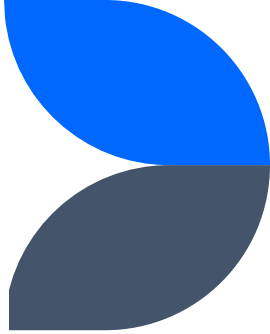


Dimension Tables



Dimension table name	Attributes
Literacy	Literacy Key, Literacy, Literacy Score
Anemia	AnemiaLevelKey, Anemia level, AnemiaScore
Wealth	Wealth Key, Wealth Index, Wealth Score
Education Attainment	Attainment Key , Edu Attainment, Edu Score
Mother Education	Mother Education Key, Education Level, Edu Level Score
Partner Education	Partner Education Key, Education Level, Edu Level Score
District	District Key, District
Survey	Survey Key, Survey
State	State Key, State
Underweight	Underweight Level Key, Underweight Level
Wasting	Wasting Level Key, Wasting Level
Stunted	Stunting Level Key, Stunting Level
Residence Type	Residence Key, Residence Type

Fact Table



Construct name	Attributes (from the fact table)
Mother's Education	Mother ID, Survey Key, State Key, District Key, Residence Key, Mother Education Key, Attainment Key, Partner Education Key, Literacy Key
Socio Economic Status	Mother ID, Survey Key, State Key, District Key, Residence Key, Wealth Key
Child Health	Child ID, Survey Key, State Key, District Key, Residence Key, Residence Key, AnemiaLevelKey, Height/Age SD, Weight/Age SD, Weight/Height SD, Stunting Level Key, Underweight Level Key, Wasting Level Key

Fact Table Name	Attributes
NFHS345	Survey Key, State Key, District Key, Residence Key, Mother Education Key, Attainment Key, Partner Education Key, Literacy Key, Wealth Key, Stunting Level Key, Underweight Level Key, Wasting Level Key

Child Health Indicators

Stunting Level from Height/Age S.D.

Severe < -300
Moderate < -200
Not Stunted otherwise

Prevents from Growing & Developing properly

Underweight Level from Weight/Age S.D.

Severe < -300
Moderate < -200
Overweight $200 < SD < 9990$
Not Underweight otherwise

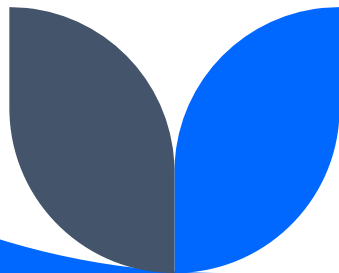
Below a weight considered normal or desirable

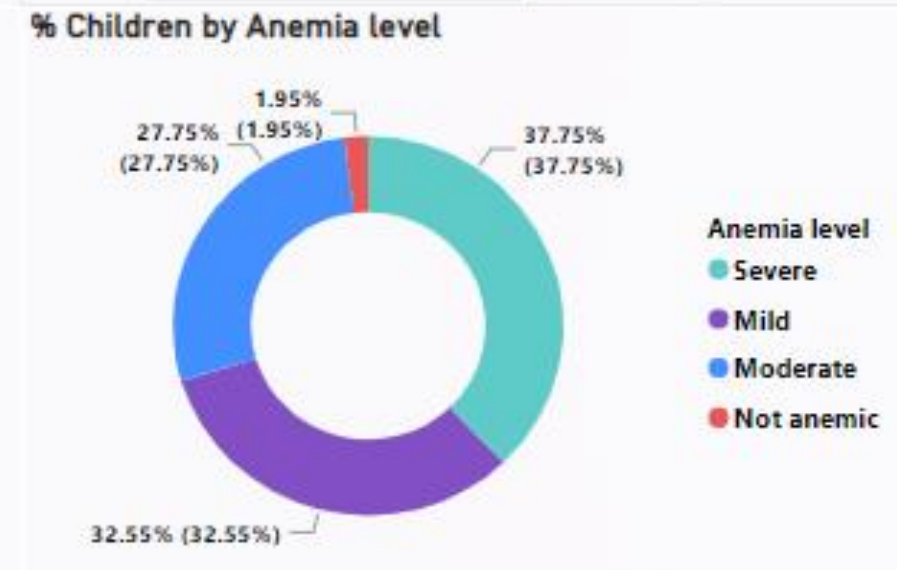
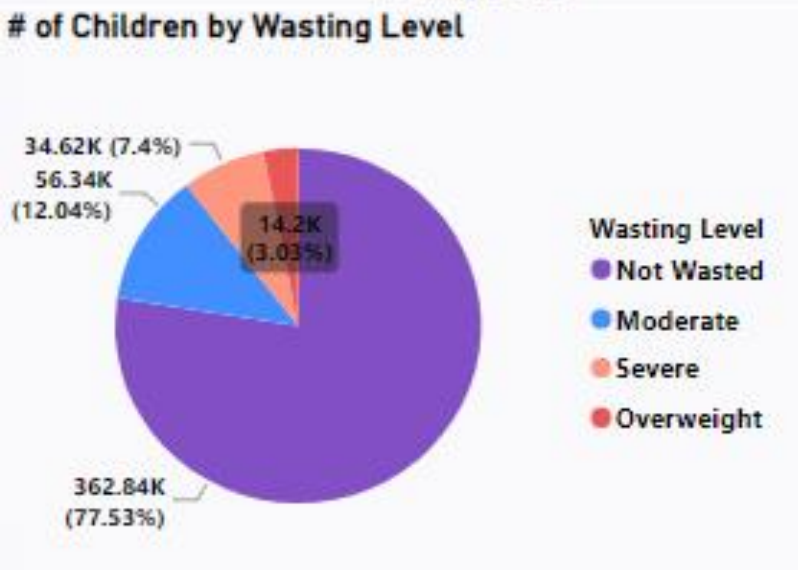
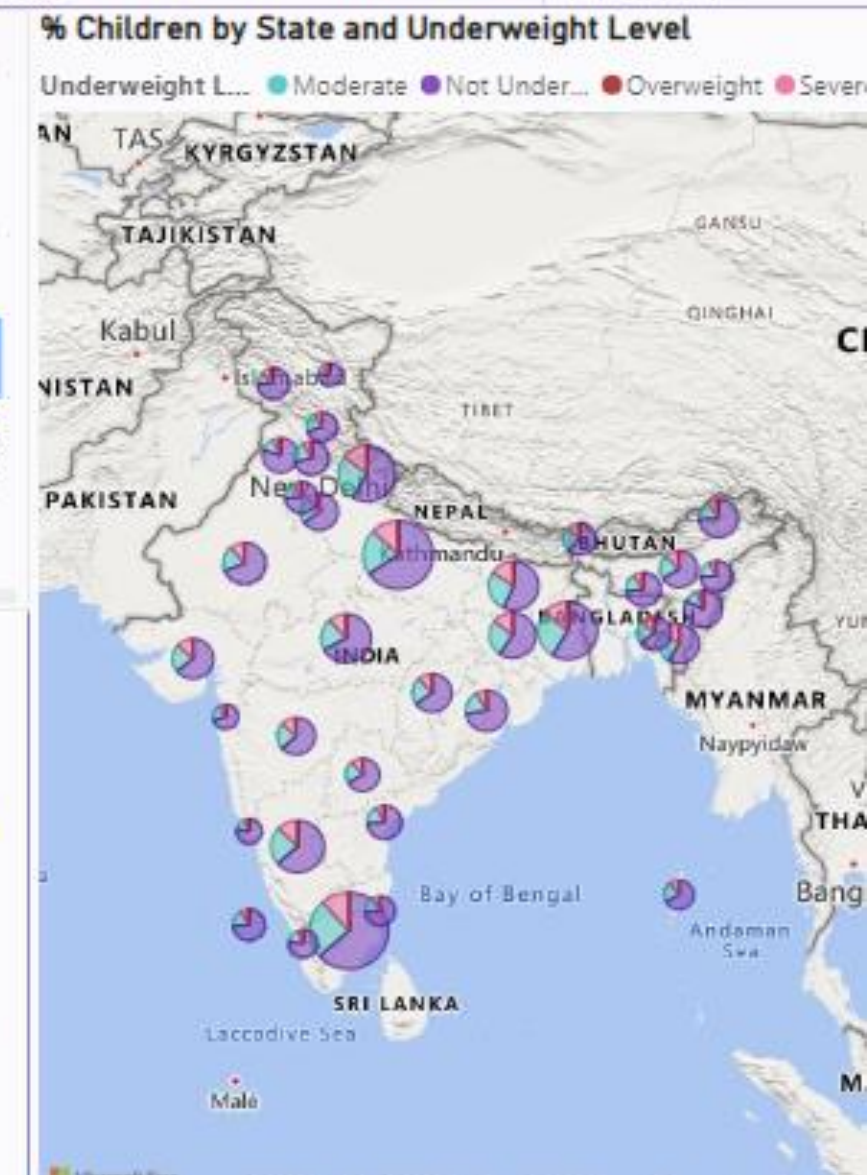
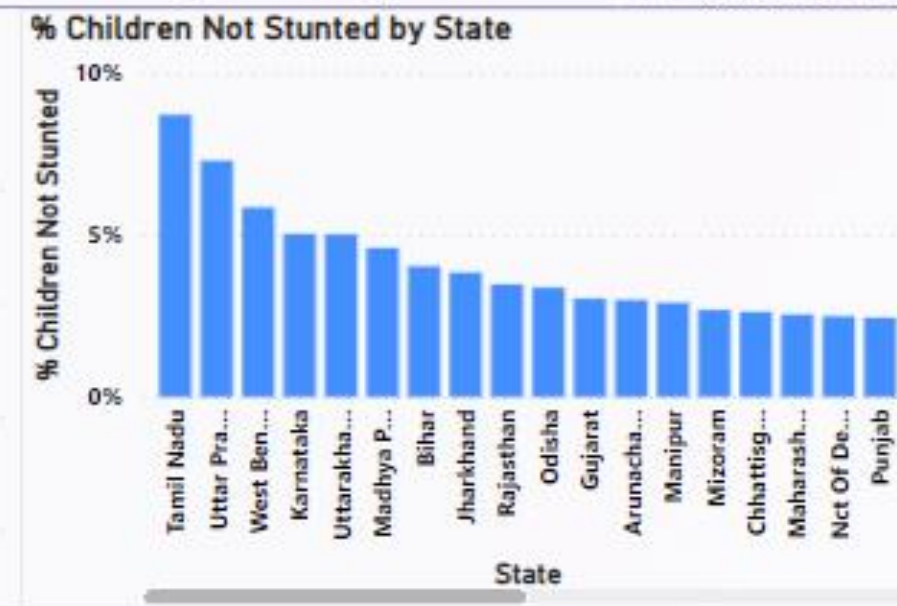
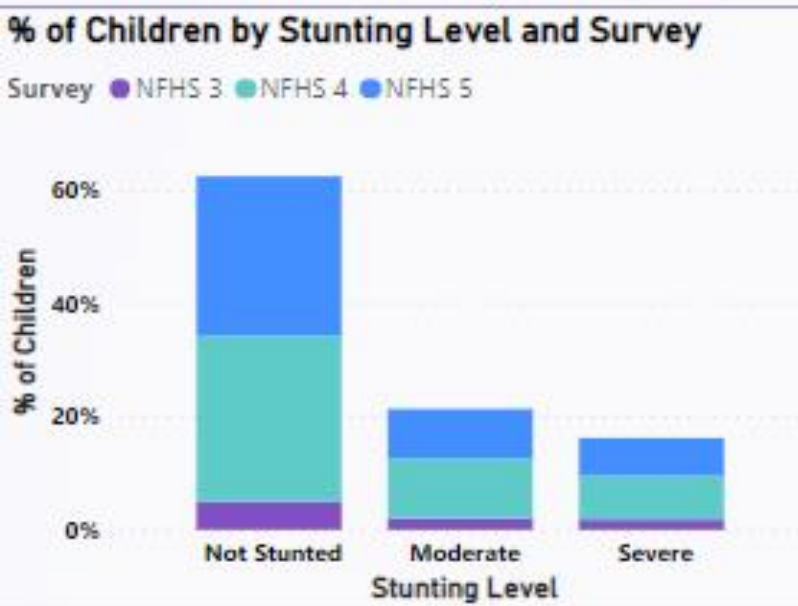
Wasting Level from Weight/Height S.D.

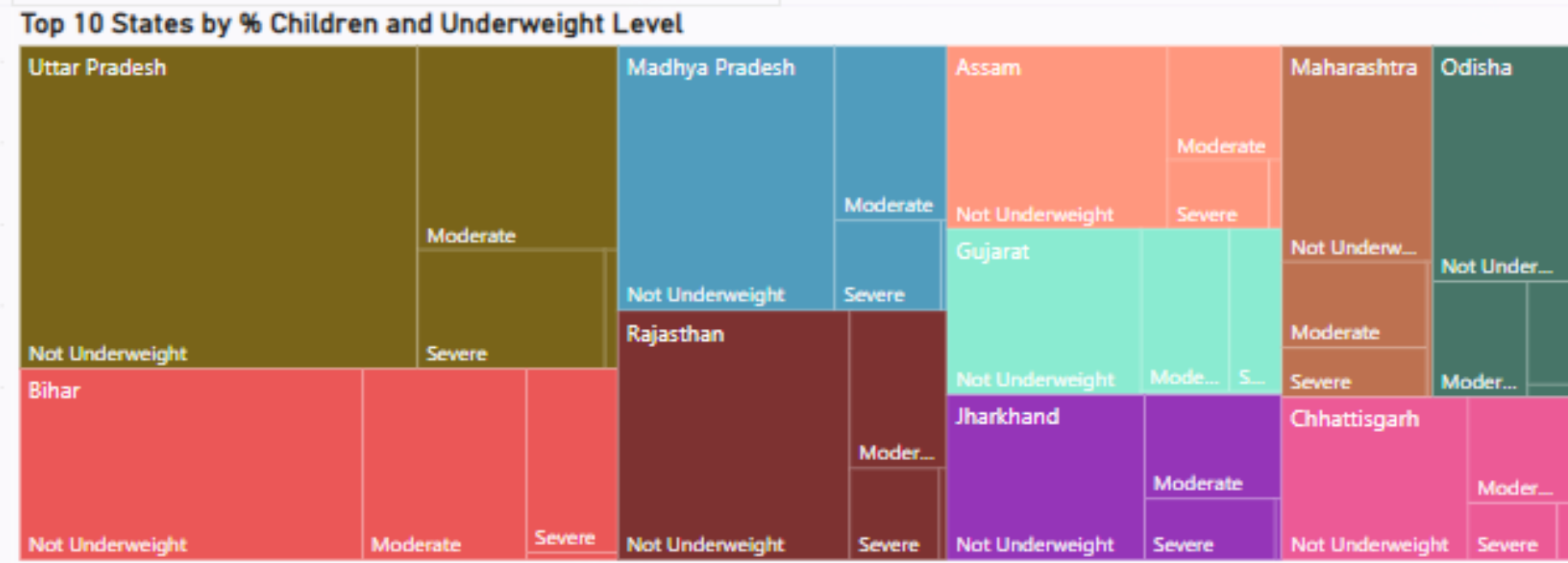
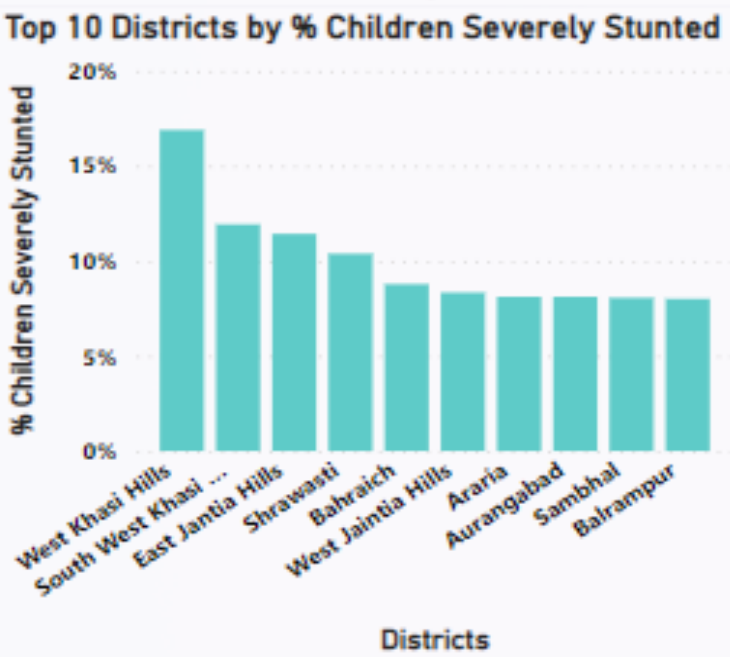
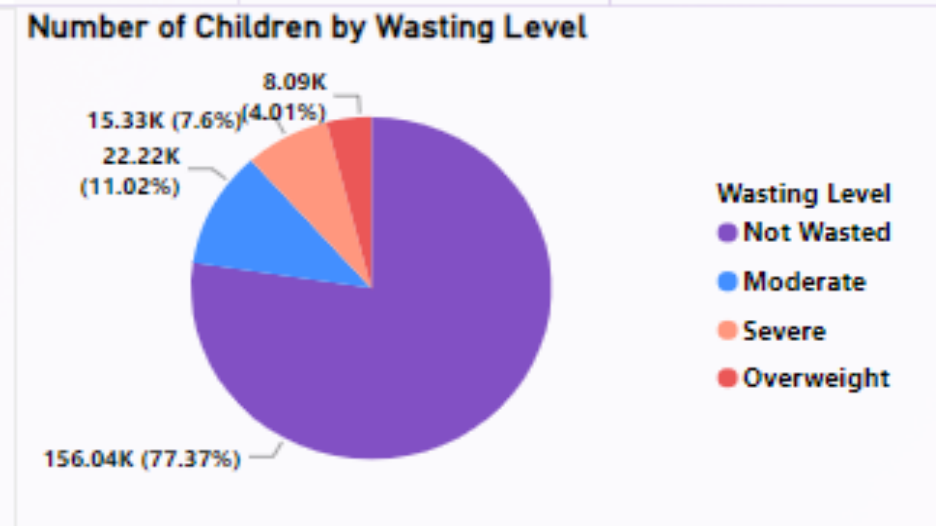
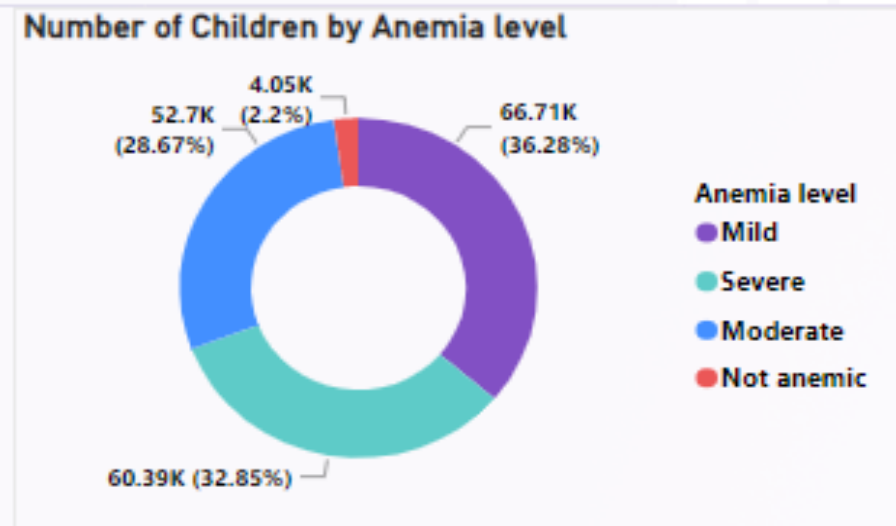
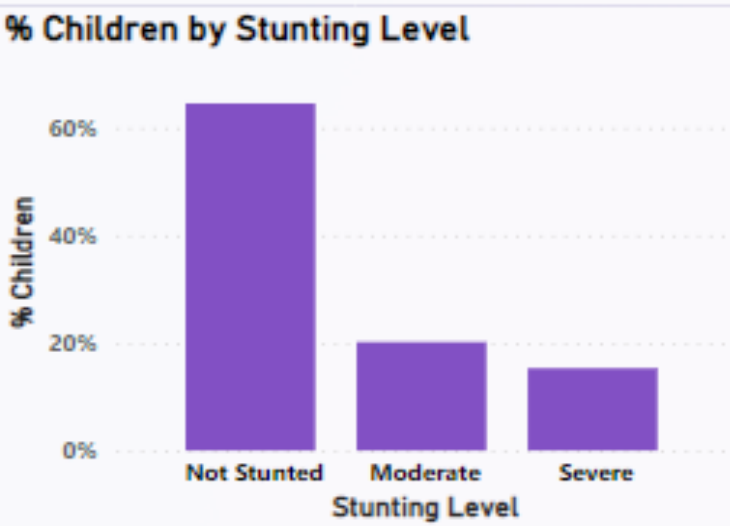
Severe < -300
Moderate < -200
Overweight $200 < SD < 9990$
Not Wasted otherwise

Undergoing loss of strength

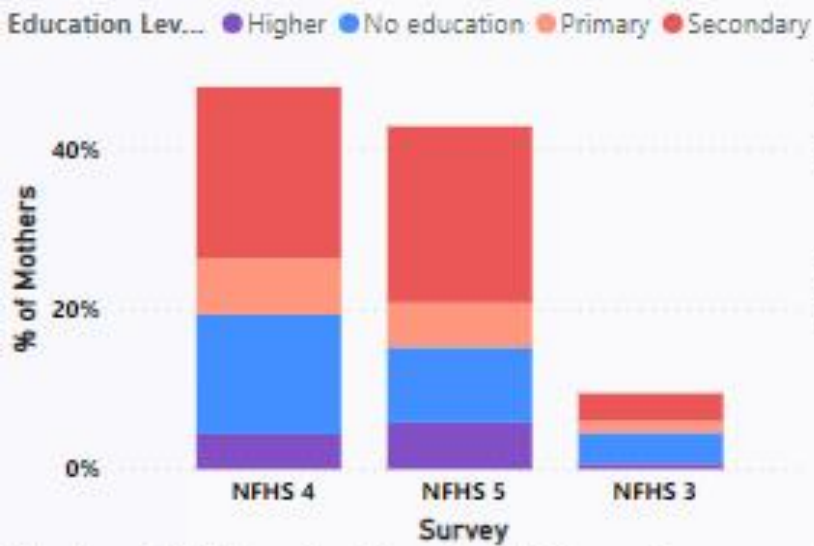
Reference : [DHS Statistics](#)



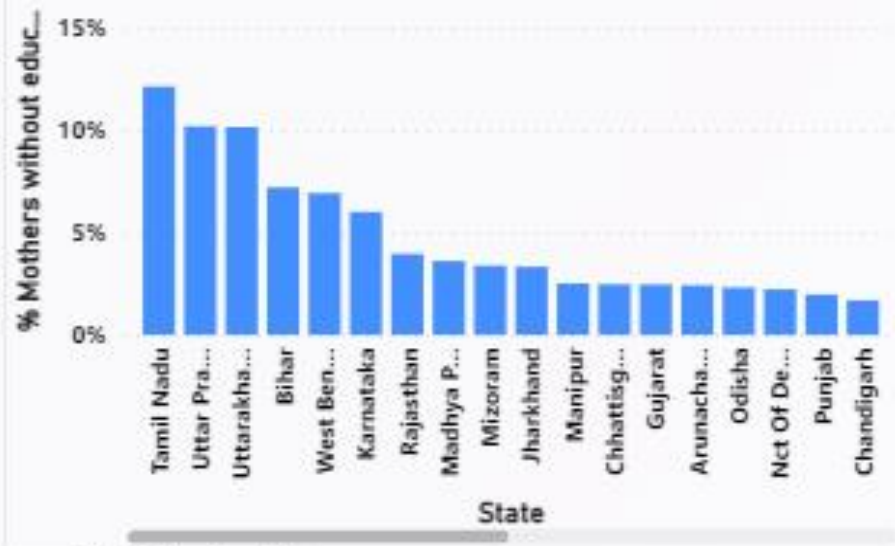




% of Mothers by Survey and Education Level



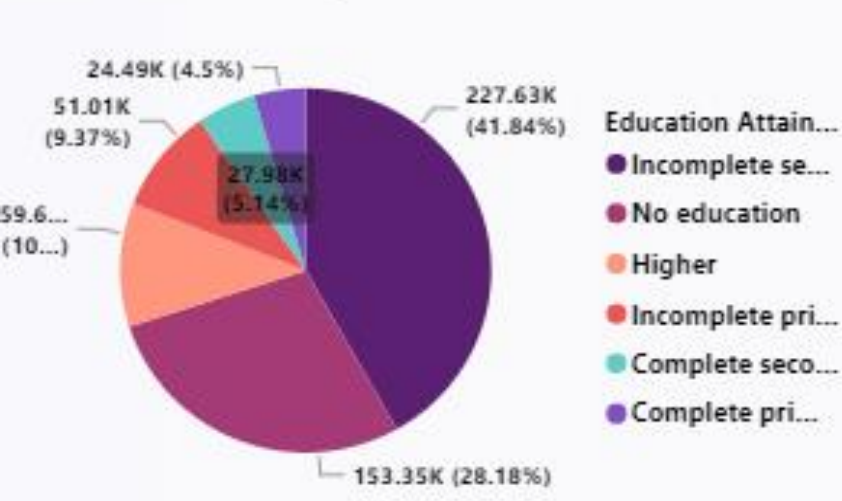
% Mothers without education by State



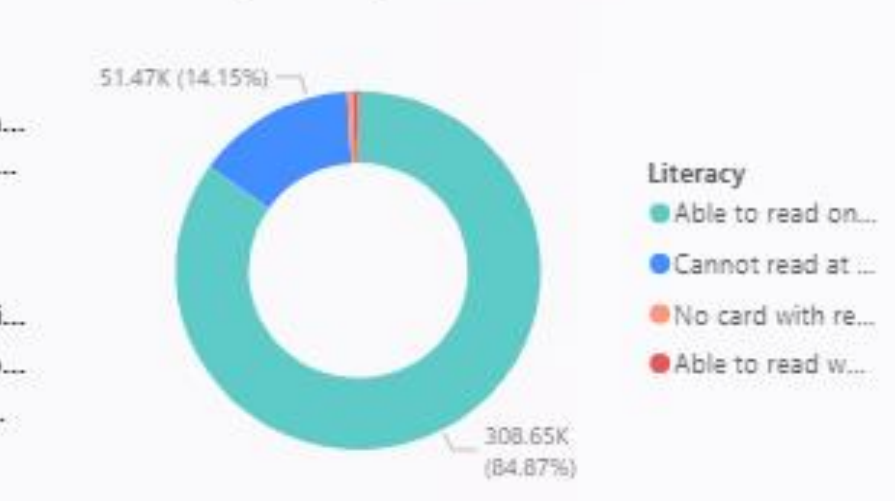
% Mothers by State and Education Level

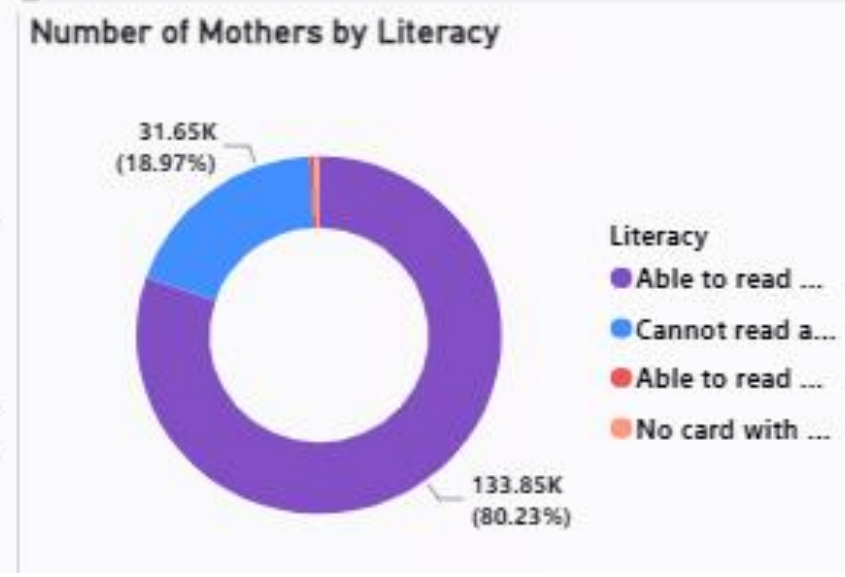
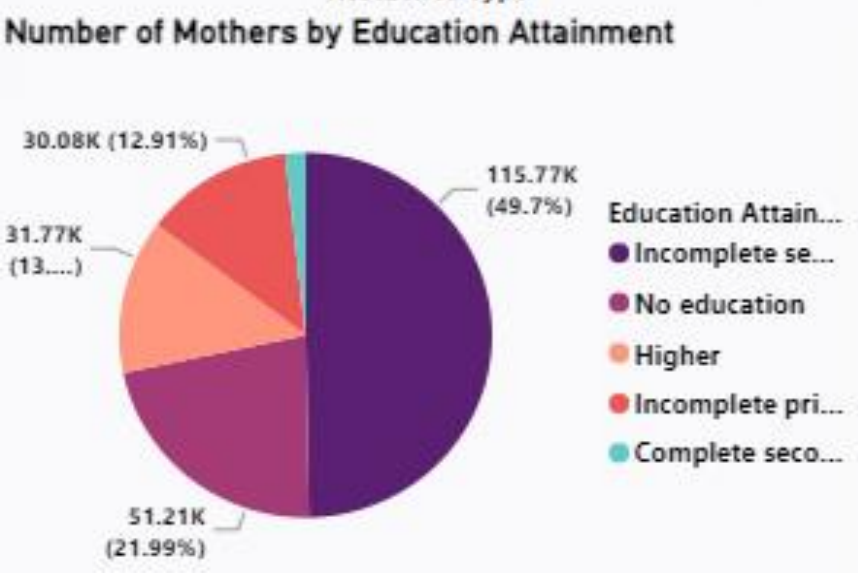
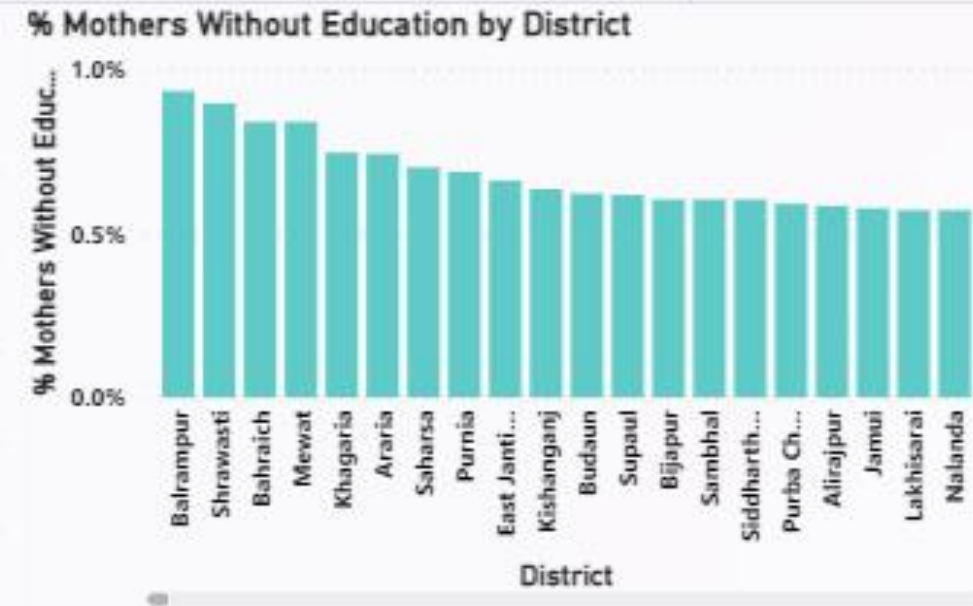
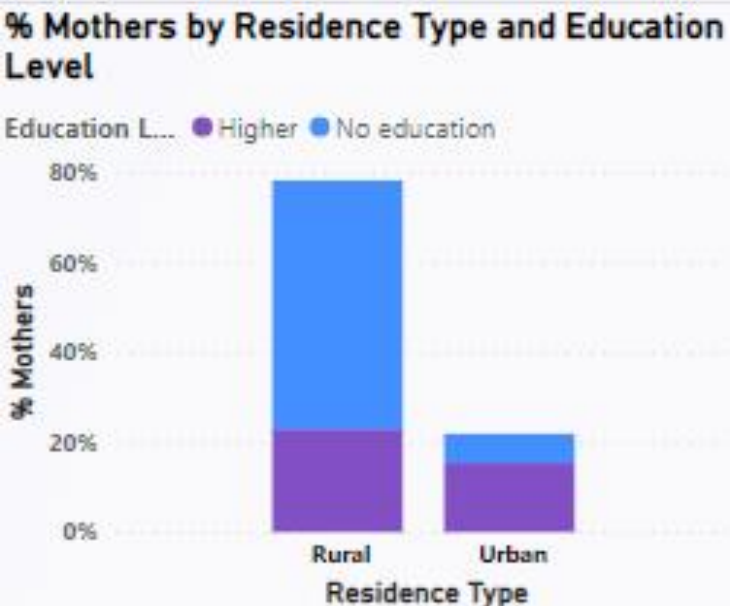


Number of Mothers by Education Attainment

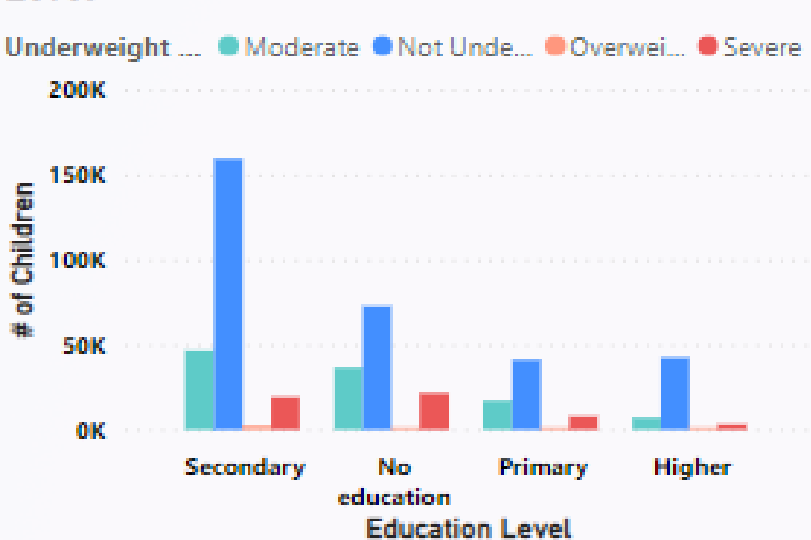


% Mother by Literacy

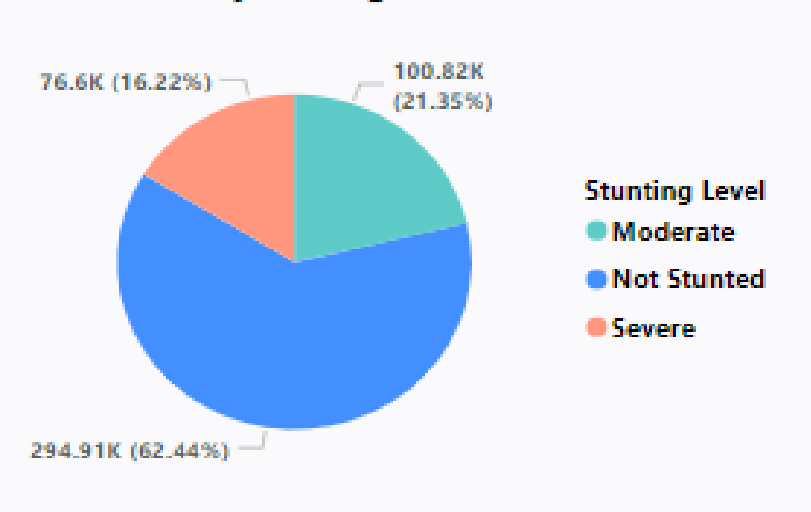




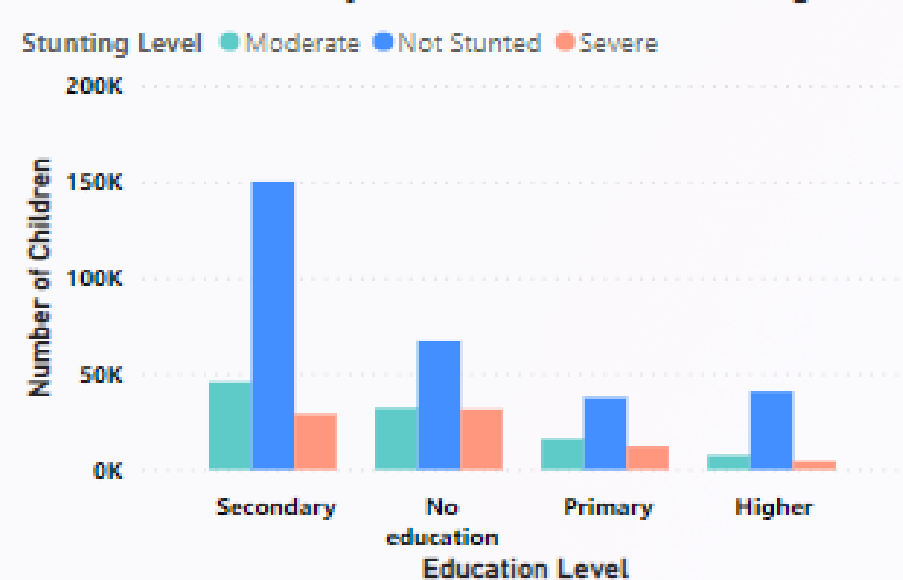
of Children by Education Level and Underweight Level



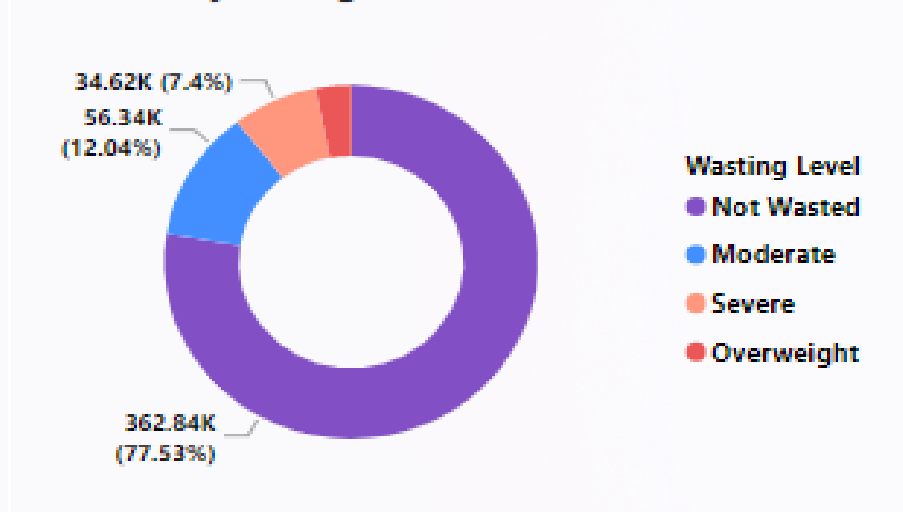
% of Children by Stunting Level



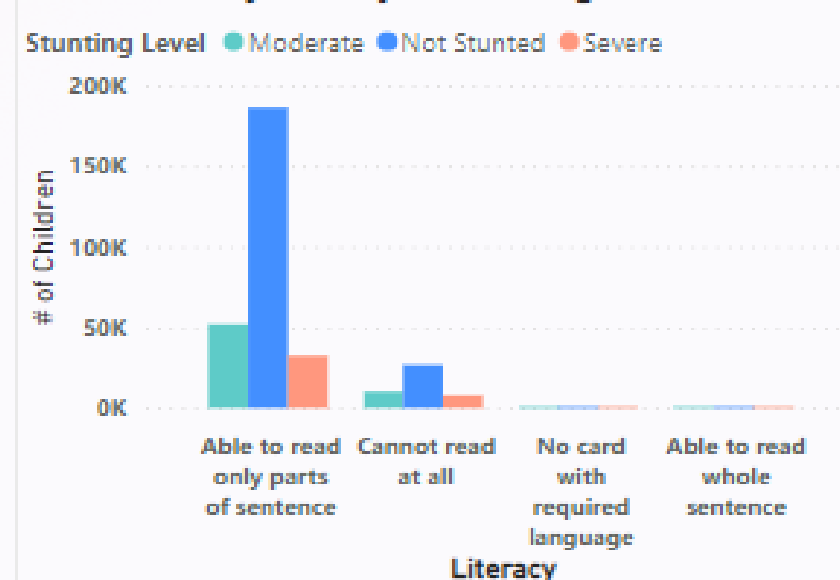
Number of Children by Education Level and Stunting Level



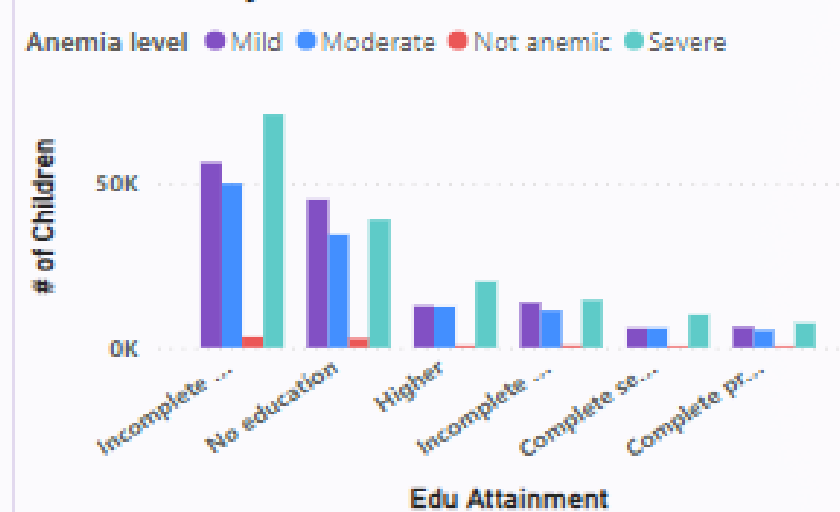
% Children by Wasting Level



of Children by Literacy and Stunting Level



of Children by Edu Attainment and Anemia Level



232920

Number Of Children

31518

Severely Stunted Children

21735

Severely Underweight Children

State

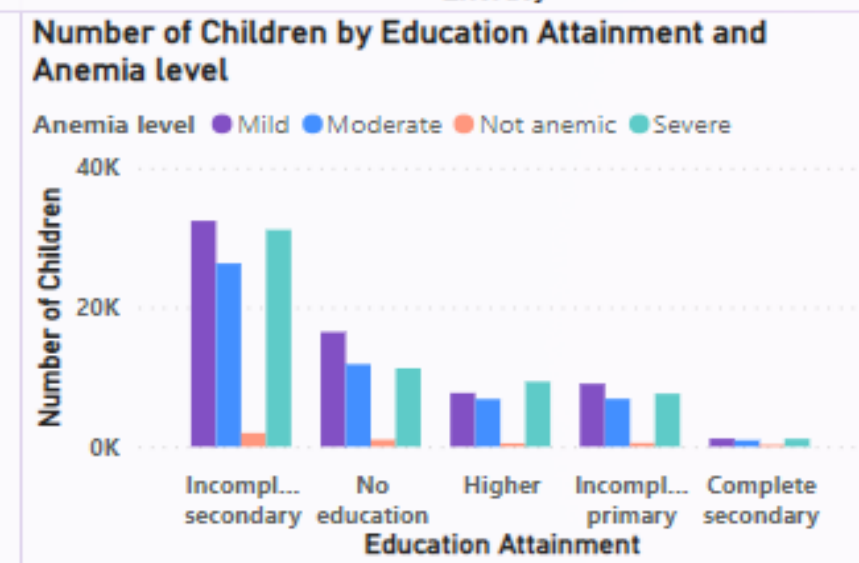
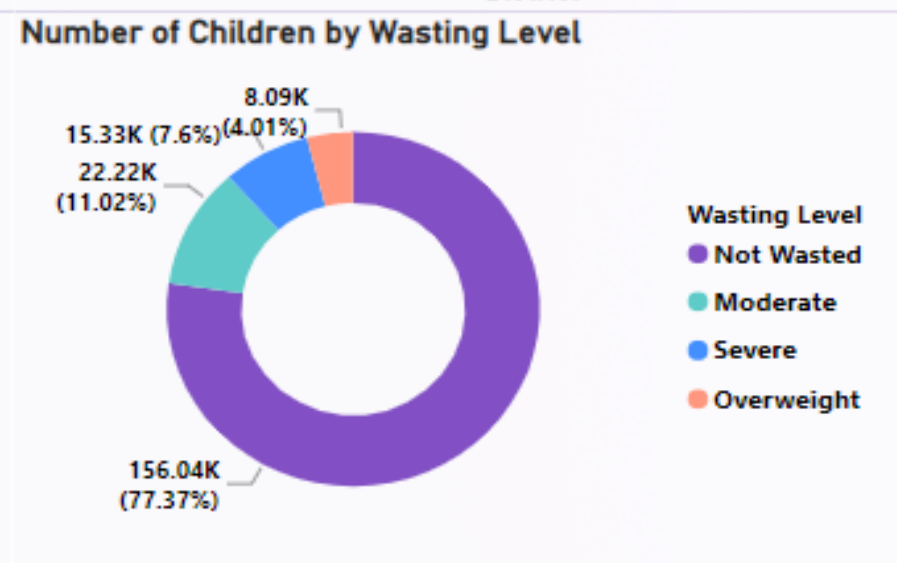
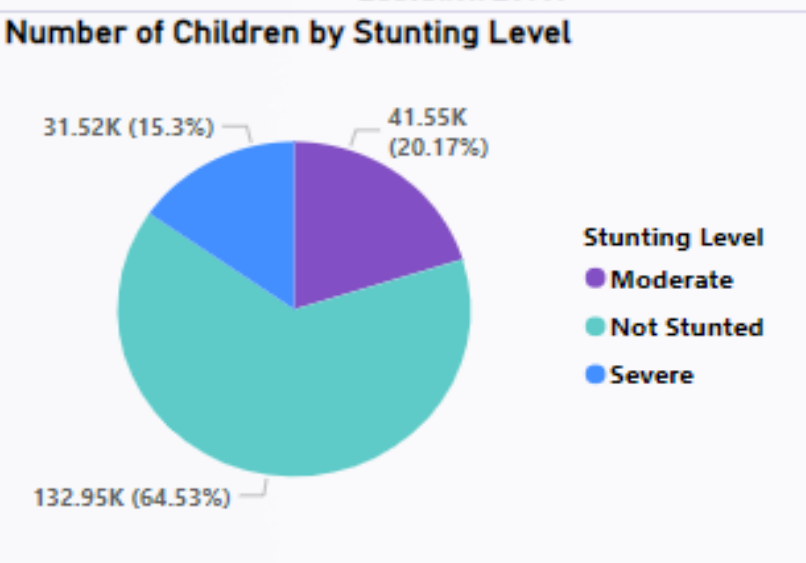
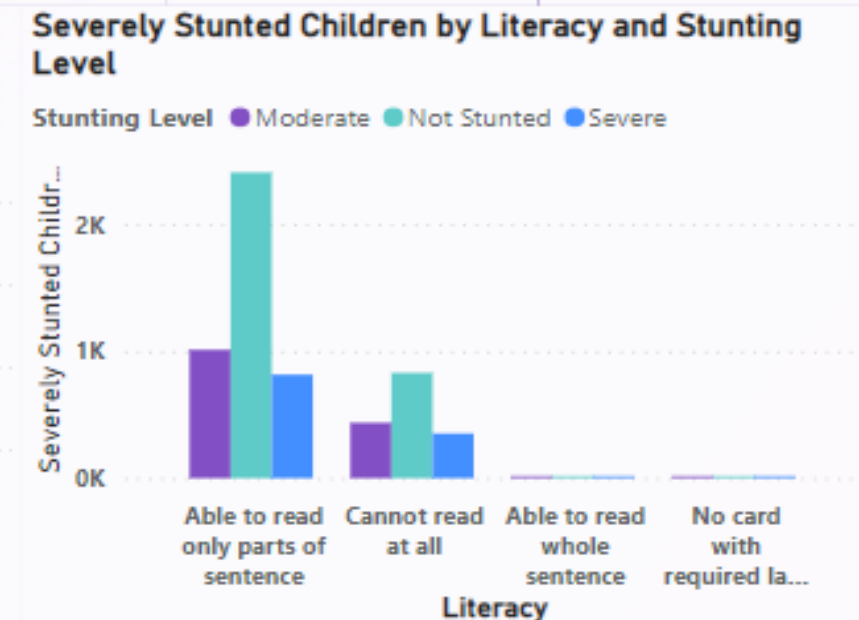
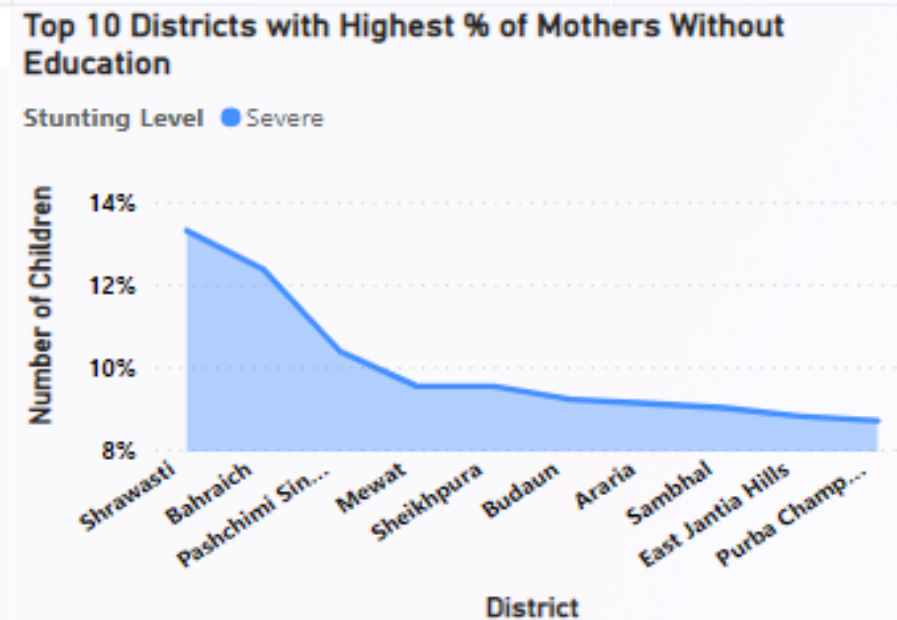
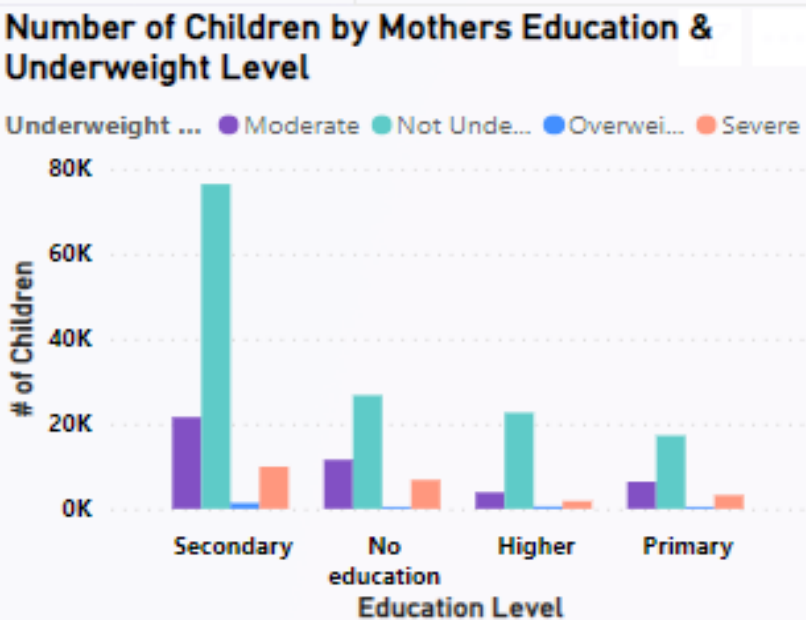
☐ Andaman & Nicobar Isl...
 ☐ Andhra Pradesh
 ☐ Assam

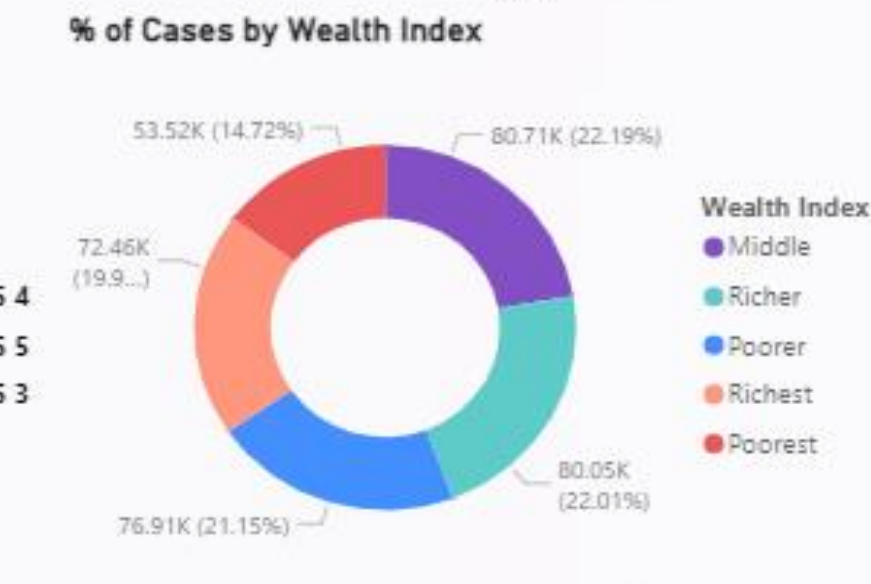
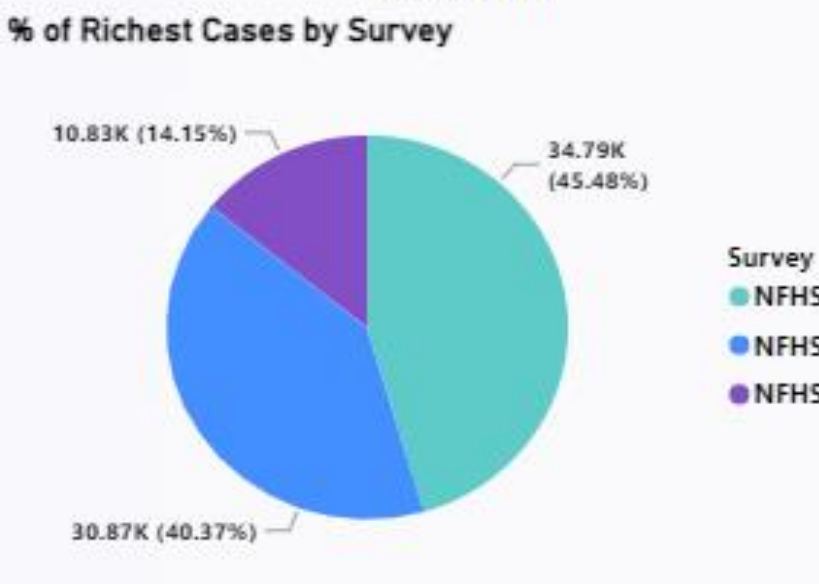
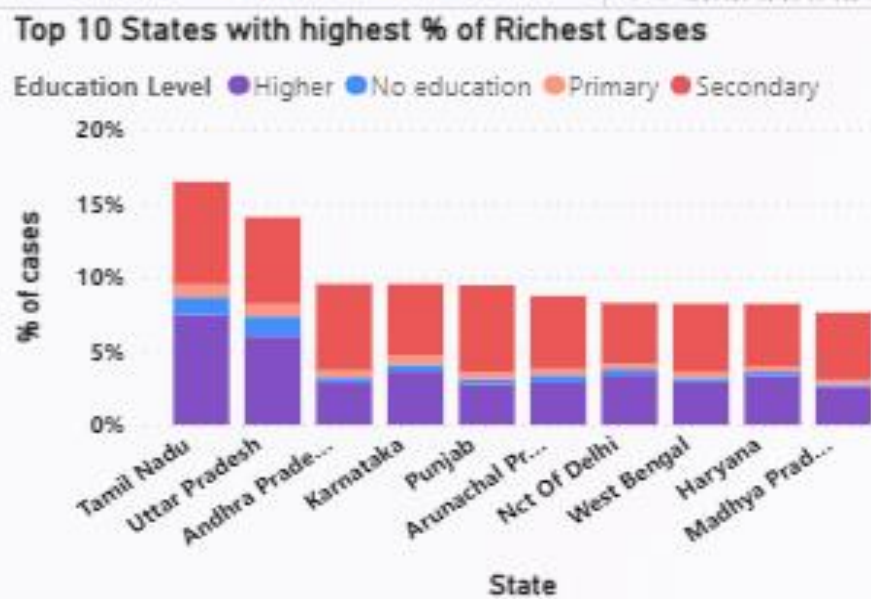
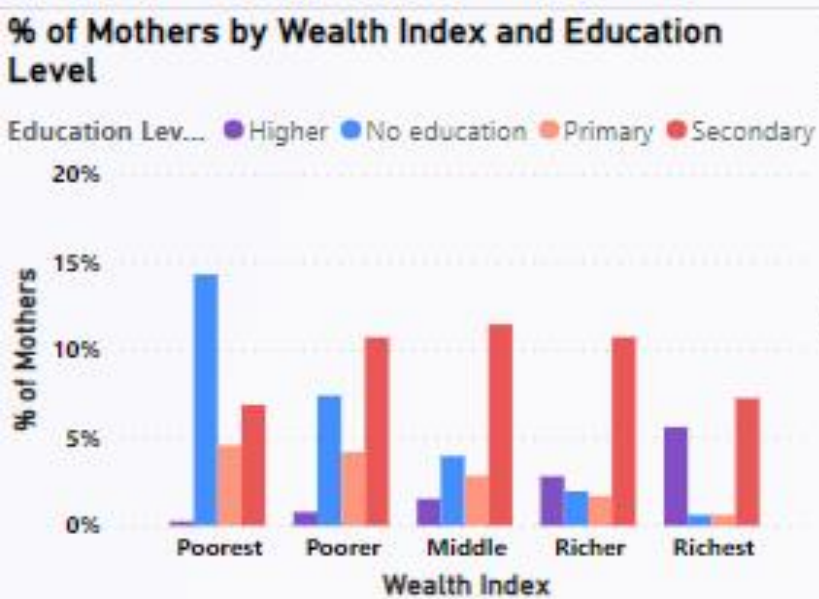
Residence Type

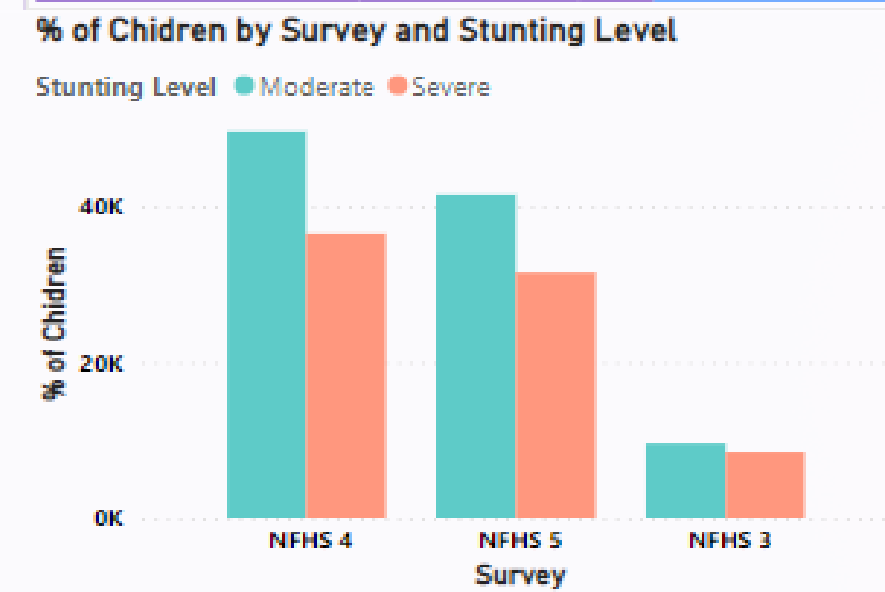
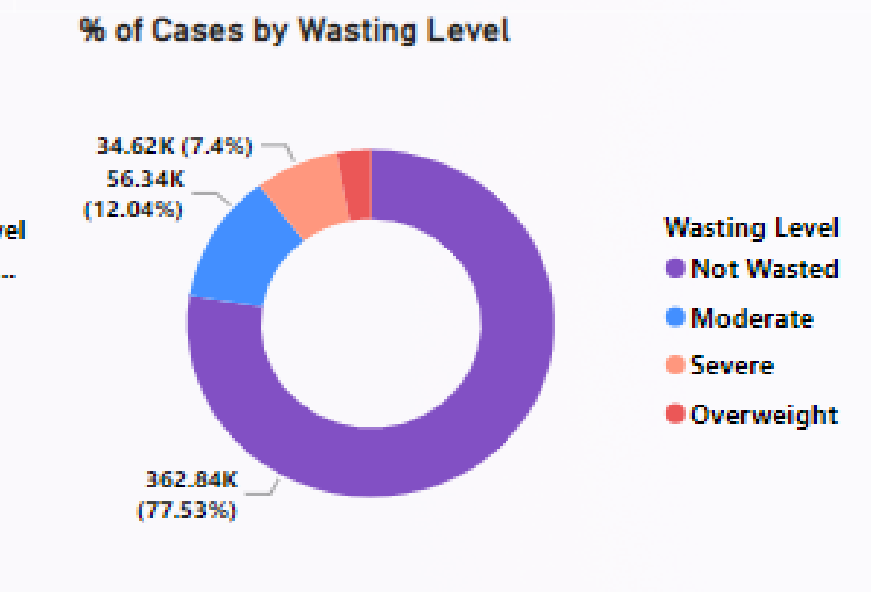
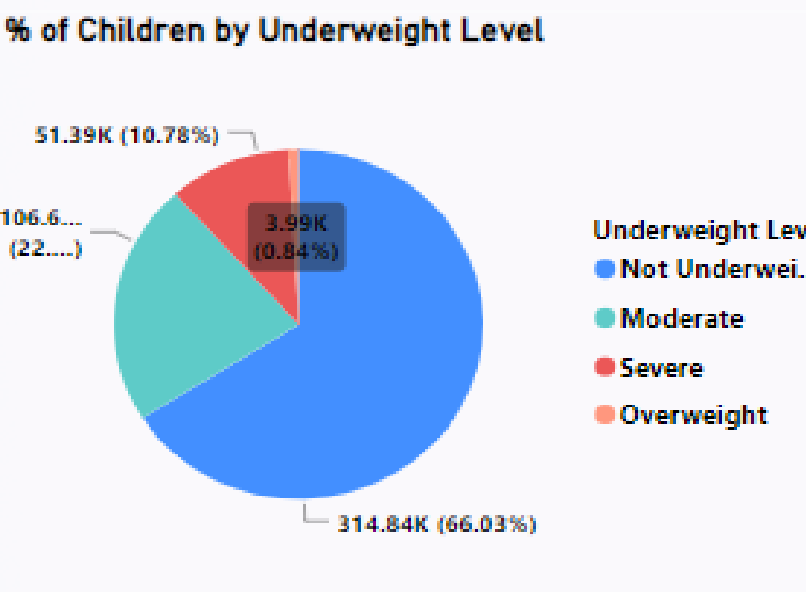
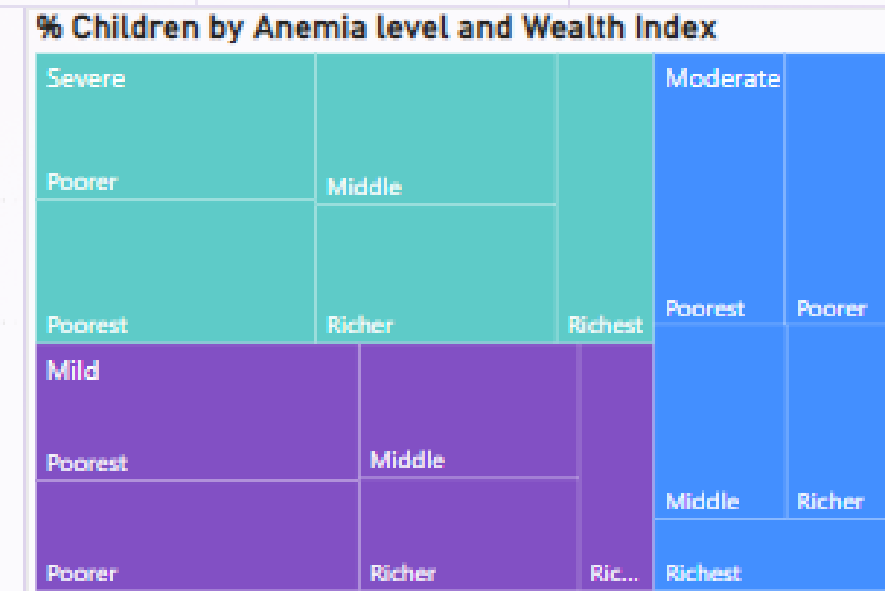
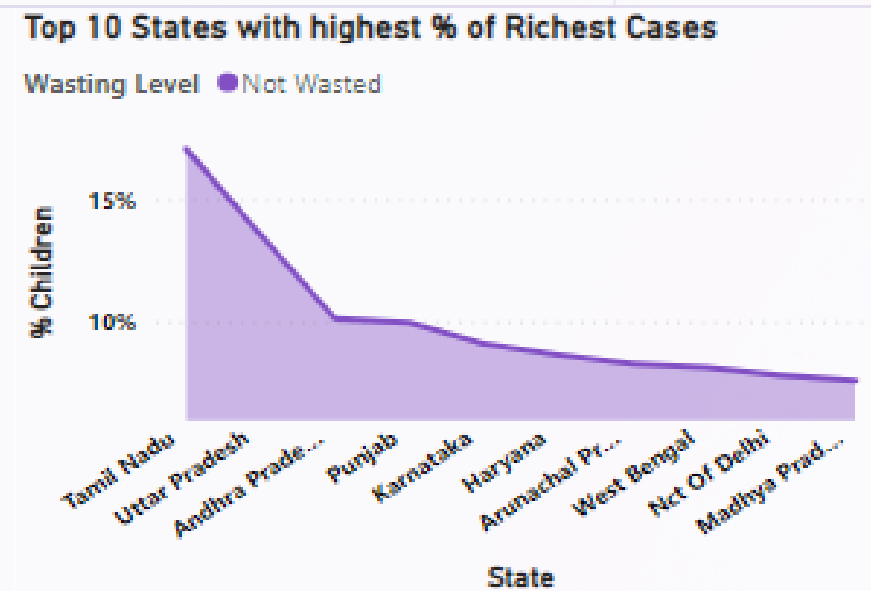
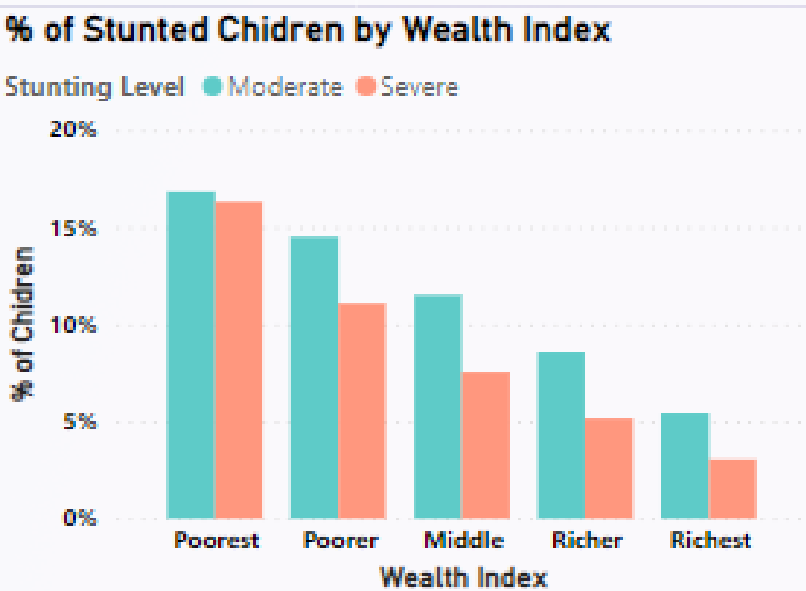
☐ Rural
 ☐ Urban

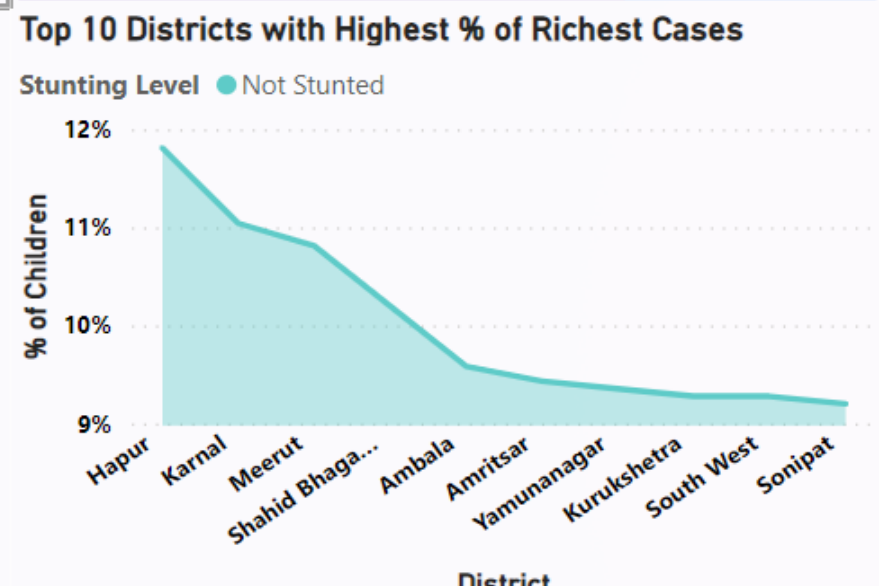
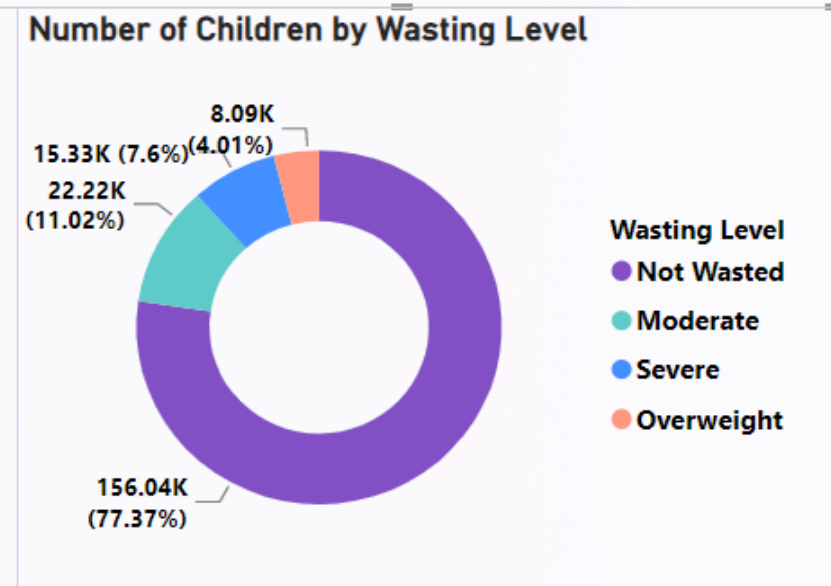
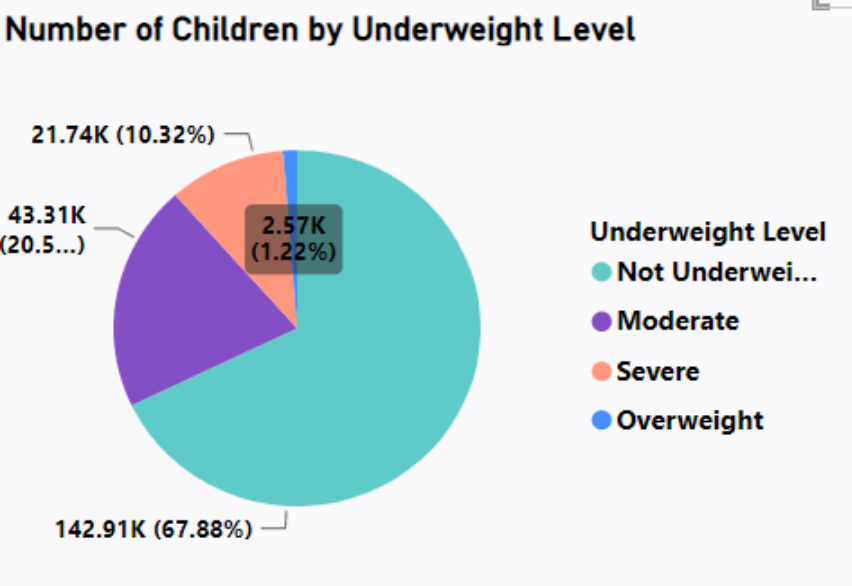
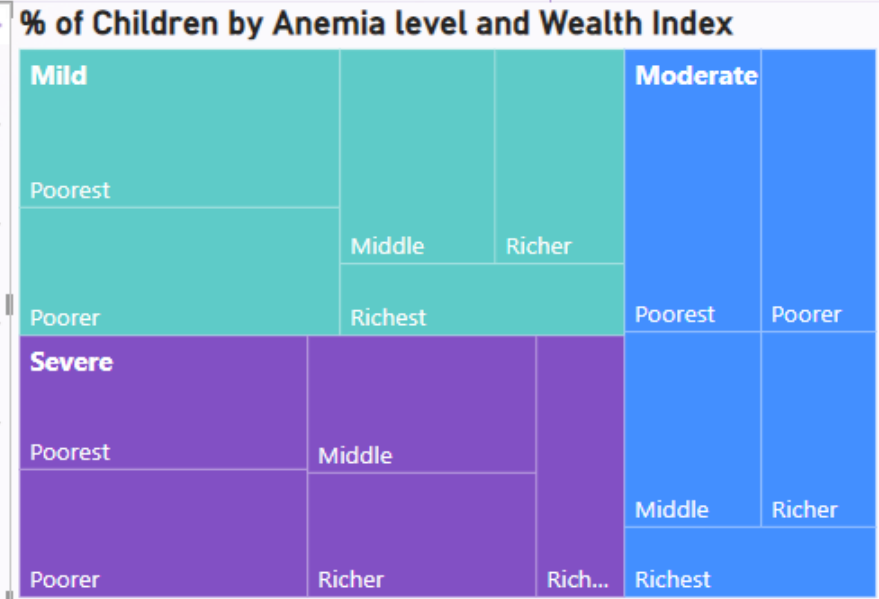
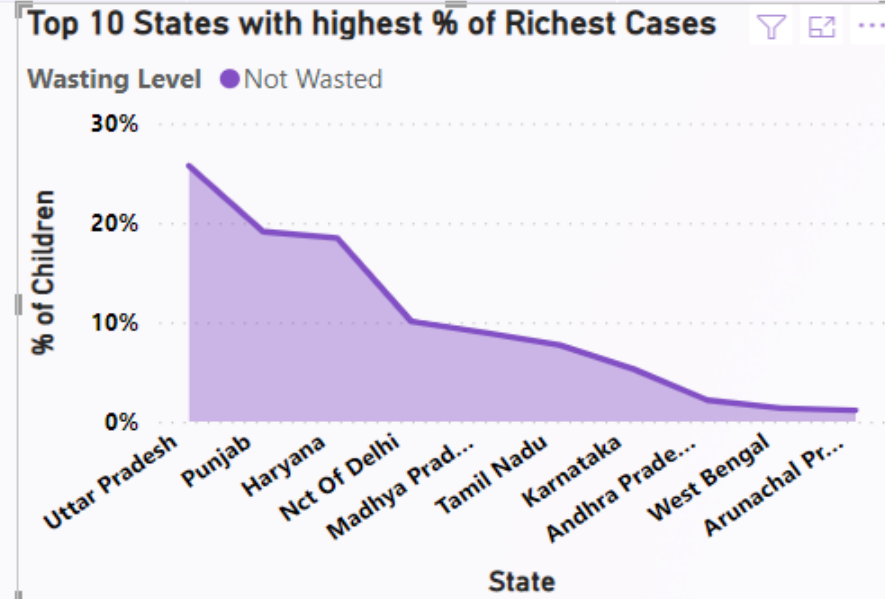
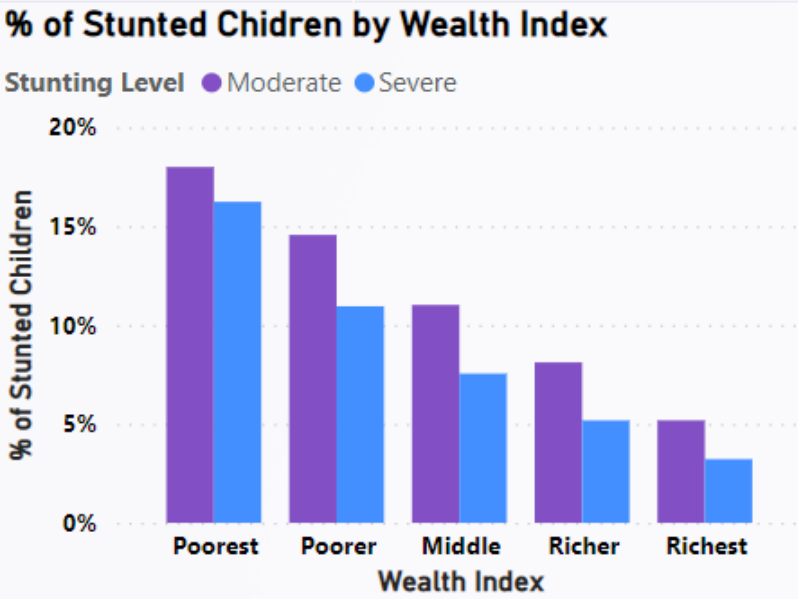
District

☐ Adilabad
 ☐ Agar Malwa
 ☐ Agra









Insights

- % of **Non-Educated Mothers** is highest in **Rural** area.
- There is no case of Mother without education in **Kerala. (NFHS5)**
- Children of **Non-Educated Mothers** have more chances of **stunting/wasting**.
- % of **non-educated Mothers** is highest in **Poorest** wealth index category whereas, % of **highly educated Mothers** is highest in **Richest** wealth Category.
- % of **severely stunted/wasted/underweight** Children is highest in **Poorest** wealth index category.
- % of **severely stunted** Children is highest in **NFHS3** Survey .

Thank You