Particularly, per the 2011 Indian census, the sex ratio of female child is 914 compared to 1,000 male child (age group 0-6 years). So a study on the life and health of an Indian woman (upto age 49) is an important factor for further study.

List of Tables:

<table>
<thead>
<tr>
<th>Table No.</th>
<th>Description</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.6.1</td>
<td>Univariate Distribution of Population Density Per Sq Km</td>
<td>25</td>
</tr>
<tr>
<td>3.6.2</td>
<td>Univariate Distribution of Gross National Income $ Per Capita</td>
<td>27</td>
</tr>
<tr>
<td>3.6.3</td>
<td>Univariate Distribution of Purchasing Power Parity $ Per Capita</td>
<td>29</td>
</tr>
</tbody>
</table>
3.6.4 Univariate Distribution of Life Expectancy of Birth for Male 31
3.6.5 Univariate Distribution of Life Expectancy of Birth for Female 34
3.6.6 Univariate Distribution of Adult Literacy Rate 36
5.7.1 Factor Analysis Results for Male ELOB 82
6.3.1 Descriptive Statistics of Variables 87
6.3.2 Pearson Correlation Coefficients 88
6.3.3 Significant Variables in the Regression Analysis 89
6.4.1 Regression Results Predicting Male Life Expectancy of Birth (World View) 90
6.4.2 Regression Results Predicting Female Life Expectancy of Birth (World View) 97
6.5.1 Regression Results for Infant Mortality Rate (IMR) 105
6.6.1 Regression Results for Maternal Mortality Ratio (MMR) 106
6.7.1 Regression Results with Health Care Predictors for Male 111
6.7.2 Regression Results with Health Care Predictors for Female 119
6.7.3 Model with Human Development Index (HDI) 128
6.8.1 Regression Results Predicting Male Life Expectancy of Birth (OECD) 130
6.8.2 Regression Results Predicting Female Life Expectancy of Birth (OECD) 139
6.8.3 Total Expenditure on Health 147
6.9.1 Profile of Sub Saharan Africa 150
6.9.2 Summary of Numeric Variables for Sub Saharan Africa 152
6.9.3 Regression Results with Political Instability Index (PII) 153
6.9.4 Regression Results Predicting Male Life Expectancy of Birth (Sub Saharan Africa) 154
6.9.5 Regression Results Predicting Female Life Expectancy at Birth (Sub Saharan Africa) 162
7.1.1 NFHS-3 Fact sheet about India 174
7.1.2 NFHS-3 Fact sheet about Haryana 175
7.1.3 NFHS-3 Fact sheet about Assam 177
7.1.4 NFHS-3 Fact sheet about Uttar Pradesh 178
7.1.5 NFHS-3 Fact sheet about Maharashtra 179
7.1.6 NFHS-3 Fact sheet about Andhra Pradesh 180
7.1.7 NFHS-3 Fact sheet about Orissa 181
7.1.8 NFHS-3 Fact sheet about Kerala 182
7.1.9 NFHS-3 Fact sheet about West Bengal 183
7.1.10 Total Fertility Rate (TFR) Comparison by Indian States 185
7.1.11 Correlation Matrix for Total Fertility Rate (TFR) Model 186
7.1.12 Linear Regression Results for Total Fertility Rate (TFR) 187
7.2.1 Linear Regression Results – Model Enhancements 189
7.2.2 More Model Enhancements for Total Fertility Rate 191
8.7.1 Distribution of Literacy between Rural and Urban Population 215
8.7.2 Statistical Test of Significance on SRS Data on TFR by Level of Mother Education (Rural –VS- Urban). 216
8.7.3 Analysis of Variance Results (ANOVA) and paired t-Test 222
### List of Figures

<table>
<thead>
<tr>
<th>FIG</th>
<th>Description</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2.1</td>
<td>Life Expectancy 2011 Estimates CIA World Fact Book</td>
<td>5</td>
</tr>
<tr>
<td>1.2.2</td>
<td>Comparison of Life Expectancy by Male and Female Population of the World.</td>
<td>5</td>
</tr>
<tr>
<td>1.3.1</td>
<td>The World Map of ELOB for 2009 compared to 1996 Data</td>
<td>9</td>
</tr>
<tr>
<td>4.4.1</td>
<td>Distribution of Residuals for Total Fertility Rate</td>
<td>72</td>
</tr>
<tr>
<td>4.4.2</td>
<td>Residual by Predicted for Total Fertility Rate</td>
<td>72</td>
</tr>
</tbody>
</table>
4.4.3 R Student by Predicted for Total Fertility Rate

4.4.4 Observed (Data) by Predicted for Total Fertility Rate

4.4.5 Cook’s D for Total Fertility Rate

4.4.6 Outlier and Leverage Diagnostics for Total Fertility Rate

4.4.7 Q-Q Plot of Residuals for Total Fertility Rate

4.4.8 Residual – Fit Spread Plot for Total Fertility Rate

4.4.9 Residuals for Total Fertility Rate

4.4.10 Influence Diagnostics for Total Fertility Rate

6.4.1 Distribution Residuals for Life Expectancy at Birth – Male

6.4.2 Residual by Predicted value for Life Expectancy at Birth – Male

6.4.3 R Student by Predicted value for Life Expectancy at Birth – Male

6.4.4 Observed Data by Predicted value for Life Expectancy at Birth – Male

6.4.5 Cook’s D for Life Expectancy at Birth – Male

6.4.6 Outlier and Leverage Diagnostics for Life Expectancy at Birth – Male

6.4.7 Q-Q Plot of Residuals Life Expectancy at Birth – Male

6.4.8 Residual-Fit Spread Plot Life Expectancy at Birth – Male

6.4.9 Residuals for Life Expectancy at Birth – Male

6.4.10 Influence Diagnostics for Life Expectancy at Birth – Male
6.4.11 Influence Diagnostics for Life Expectancy at Birth – Male (Explanatory variables)

6.4.12 Distribution of Residuals for Life Expectancy at Birth – Female

6.4.13 Residual by Predicted (Value) for Life Expectancy at Birth – Female

6.4.14 R Student by Predicted (Value) for Life Expectancy at Birth – Female

6.4.15 Observed Data by Predicted (Value) for Life Expectancy at Birth – Female

6.4.16 Cook’s D for Life Expectancy at Birth – Female

6.4.17 Outlier and Leverage Diagnostics for Life Expectancy at Birth – Female

6.4.18 Q-Q Plot of Residuals Life Expectancy at Birth – Female

6.4.19 Residual-Fit Spread Plot Life Expectancy at Birth – Female

6.4.20 Residuals for Life Expectancy at Birth – Female

6.4.21 Influence Diagnostics for Life Expectancy at Birth – Female

6.4.22 Influence Diagnostics for Life Expectancy at Birth – Female (Explanatory variables)

6.5.1 Line Plot of GNI and PPP Country wise

6.7.1 Distribution of Residuals for Life Expectancy at Birth – Male

6.7.2 Residual by Predicted (Value) for Life Expectancy at Birth – Male

6.7.3 R Student by Predicted (Value) for Residual by Predicted (Value) for Life Expectancy at Birth – Male
6.7.4 Observed (Data) by Predicted (Value) for Life Expectancy at Birth – Male

6.7.5 Cook’s D for Life Expectancy at Birth – Male

6.7.6 Outlier and Leverage Diagnostics for Life Expectancy at Birth – Male

6.7.7 Q-Q Plot of Residuals for Life Expectancy at Birth – Male

6.7.8 Residual – Fit Spread Plot for Life Expectancy at Birth – Male

6.7.9 Residuals for Life Expectancy at Birth-Male

6.7.10 Influence Diagnostics for Life Expectancy at Birth-Male

6.7.11 Influence Diagnostics for Life Expectancy at Birth-Male (A)

6.7.12 Influence Diagnostics for Life Expectancy at Birth-Male (B)

6.7.13 Distribution of Residuals for Life Expectancy at Birth – Female

6.7.14 Residual by Predicted (Value) for Life Expectancy at Birth – Female

6.7.15 R Student by Predicted (Value) for Life Expectancy at Birth – Female

6.7.16 Observed (Data) by Predicted (Value) for Life Expectancy at Birth – Female

6.7.17 Cook’s D for Life Expectancy at Birth – Female

6.7.18 Outlier and Leverage Diagnostics for Life Expectancy at Birth – Female

6.7.19 Q-Q Plot of Residuals for Life Expectancy at Birth – Female

6.7.20 Residual – Fit Spread Plot for Life Expectancy at Birth – Female
Female

6.7.21 Residuals for Life Expectancy at Birth - Female

6.7.22 Influence Diagnostics for Life Expectancy at Birth - Female

6.7.23 Influence Diagnostics for Life Expectancy at Birth - Female (A)

6.7.24 Influence Diagnostics for Life Expectancy at Birth - Female (B)

6.8.1 Distribution Residuals for Life Expectancy at Birth - OECD Male

6.8.2 Residual by Predicted value for Life Expectancy at Birth – OECD Male

6.8.3 R Student by Predicted value for Life Expectancy at Birth – OECD Male

6.8.4 Observed Data by Predicted value for Life Expectancy at Birth – OECD Male

6.8.5 Cook’s D for Life Expectancy at Birth – OECD Male

6.8.6 Outlier and Leverage Diagnostics for Life Expectancy at Birth – OECD Male

6.8.7 Q-Q Plot of Residuals Life Expectancy at Birth – OECD Male

6.8.8 Residual-Fit Spread Plot Life Expectancy at Birth – OECD Male

6.8.9 Residuals for Life Expectancy at Birth – OECD Male

6.8.10 Influence Diagnostics for Life Expectancy at Birth – OECD Male (A)

6.8.11 Influence Diagnostics for Life Expectancy at Birth – OECD Male (B)
6.8.12 Influence Diagnostics for Life Expectancy at Birth – OECD Male (C) 138
6.8.13 Distribution of Residuals for Life Expectancy at Birth – OECD Female 141
6.8.14 Residual by Predicted (Value) for Life Expectancy at Birth – OECD Female 142
6.8.15 R Student by Predicted (Value) for Life Expectancy at Birth – OECD Female 142
6.8.16 Observed Data by Predicted (Value) for Life Expectancy at Birth – OECD Female 143
6.8.17 Cook’s D for Life Expectancy at Birth – OECD Female 143
6.8.18 Outlier and Leverage Diagnostics for Life Expectancy at Birth – OECD Female 144
6.8.19 Q-Q Plot of Residuals Life Expectancy at Birth – OECD Female 144
6.8.20 Residual-Fit Spread Plot Life Expectancy at Birth – OECD Female 145
6.8.21 Residuals for Life Expectancy at Birth – OECD Female 145
6.8.22 Influence Diagnostics for Life Expectancy at Birth – OECD Female 146
6.8.23 Influence Diagnostics for Life Expectancy at Birth – OECD Female (A) 146
6.8.24 Influence Diagnostics for Life Expectancy at Birth – OECD Female (B) 147
6.9.1 Distribution Residuals for Life Expectancy at Birth – Sub-Sahara African Male 156
6.9.2 Residual by Predicted value for Life Expectancy at Birth – Sub-Sahara African Male 157
6.9.3 R Student by Predicted value for Life Expectancy at Birth – Sub-Sahara African Male 157
6.9.4 Observed Data by Predicted value for Life Expectancy at Birth – Sub-Sahara African Male

6.9.5 Cook’s D for Life Expectancy at Birth – Sub-Sahara African Male

6.9.6 Outlier and Leverage Diagnostics for Life Expectancy at Birth – Sub-Sahara African Male

6.9.7 Q-Q Plot of Residuals Life Expectancy at Birth – Sub-Sahara African Male

6.9.8 Residual-Fit Spread Plot Life Expectancy at Birth – Sub-Sahara African Male

6.9.9 Residuals for Life Expectancy at Birth – Sub-Sahara African Male

6.9.10 Influence Diagnostics for Life Expectancy at Birth – Sub-Sahara African Male

6.9.11 Influence Diagnostics for Life Expectancy at Birth – Sub-Sahara African Male (A)

6.9.12 Distribution of Residuals for Life Expectancy at Birth – Sub-Sahara African Female

6.9.13 Residual by Predicted (Value) for Life Expectancy at Birth – Sub-Sahara African Female

6.9.14 R Student by Predicted (Value) for Life Expectancy at Birth – Sub-Sahara African Female

6.9.15 Observed Data by Predicted (Value) for Life Expectancy at Birth – Sub-Sahara African Female

6.9.16 Cook’s D for Life Expectancy at Birth – Sub-Sahara African Female

6.9.17 Outlier and Leverage Diagnostics for Life Expectancy at Birth – Sub-Sahara African Female

6.9.18 Q-Q Plot of Residuals Life Expectancy at Birth – Sub-Sahara African Female
6.9.19  Residual-Fit Spread Plot Life Expectancy at Birth – Sub-Saharan African Female

6.9.20  Residuals for Life Expectancy at Birth – Sub-Saharan African Female

6.9.21  Influence Diagnostics for Life Expectancy at Birth – Sub-Saharan African Female (A)

6.9.22  Influence Diagnostics for Life Expectancy at Birth – Sub-Saharan African Female

7.1  INDIA, Haryana, Assam and Kerala Note that figures are in percentages except Median age at first birth and Total Fertility Rate (TFR)

7.2.1  Fertility Rate by major Indian states (Source: NFHS-3)

7.2.2  Distribution of Residuals for Total Fertility Rate (India)

7.2.3  Residual by Predicted Value for Total Fertility Rate (India)

7.2.4  RStudent by Predicted Value for Total Fertility Rate (India)

7.2.5  Observed by Predicted Value for Total Fertility Rate (India)

7.2.6  Cook’s D for Total Fertility Rate (India)

7.2.7  Outlier and Leverage Diagnostics for Total Fertility Rate (India)

7.2.8  Q-Q Plot for Residuals for Total Fertility Rate (India)

7.2.9  Residual-Fit Spread Plot for Total Fertility Rate (India)

7.2.10 Residuals for Total Fertility Rate (India)

7.2.11 Influence Diagnostics for Total Fertility Rate (India)

7.2.12 Influence Diagnostics for Total Fertility Rate A (India)

7.3.1 Per Capita GDP for NE States with Indian Average

7.5.1 India Literacy rate Map

8.2.1 Decadal growth of Indian Population (1901-2011).

8.3.1 Number of girls born in India since 1961
8.6.1 Population Below Poverty Line. 212
8.7.1 Distribution Of Rural with 95% Confidence 216
8.7.1(a) Distribution of Rural 217
8.7.1(b) Distribution of Rural with 95% Confidence (Closer View) 217
8.7.2 Mean of Rural 218
8.7.3 Q-Q Plot of Rural 218
8.7.4 Distribution of Urban with 95% Confidence 219
8.7.4(a) Distribution of Urban 220
8.7.4(b) Distribution of Urban with 95% Confidence (Closer View) 220
8.7.5 Mean of Urban 221
8.7.6 Q-Q Plot of Urban 221
8.9.1 Maternal Mortality Ratio – Worldwide 224
8.9.2 Trends in Maternal Mortality 225
8.9.3 Percentage of Causes of Maternal Death 227
8.9.4 MMR Chart - SSA 228