

Assignments Related Survey Data

Survey Data

 Nominal	 Ordinal	 Scale
Department	Education	Before Training Marks
Sex	Position of Staff	After Training Marks
Marital Status	Statements	Total Score in training
Place	Age Category	Age
	Income Category	Monthly Income
	Experience Category	Experience
	training Score Cat	Physical Wellbeing
	Category of Physical Wellbeing	Social Wellbeing
	Category of Social Wellbeing	Emotional Wellbeing
	Category of Functional Wellbeing	Functional Wellbeing
	Category of Emotional Wellbeing	Total Score
	Category of Total Score	

Independent Variables:

Department Age Sex Education
 Marital Status Position Experience Place

Dependent Variables:

Monthly Income
 Physical Well-being Social Well-being
 Emotional Well-being Functional Well-being
 Total score

Assignment-1

FREQUENCY DISTRIBUTION:

Frequency and Percentage of

Department

Sex

Education

Marital Status

Position

Place

Assignment-2

CATEGORY WISE FREQUENCY DISTRIBUTION:

Age	-	Less than 31,	31-50,	More than 50
Monthly income	-	Low,	Medium,	Heigh
Experience	-	Low,	Medium,	Heigh
Training test score	-	Low,	Medium,	Heigh
Physical Well-being	-	Low,	Medium,	Heigh
Social Well-being	-	Low,	Medium,	Heigh
Emotional Well-being	-	Low,	Medium,	Heigh
Functional Well-being	-	Low,	Medium,	Heigh

Assignment-3

DESCRIPTIVE ANALYSIS:

Find Min, Max, Mean, SD

Marks Before test

Marks After Test

Age

Income

Experience

Physical Well-being score

Social Well-being score

Emotional Well-being score

Functional Well-being score

Total score

Assignment-4

CORRELATION:

Age

Experience

Monthly Income

Physical Well-being

Social Well-being

Emotional Well-being

Functional Well-being

Assignment-5

REGRESSION ANALYSIS:

Independent Variables:

Department, **Age**, **B_Train**, **A_Train** Sex, Education,
Marital Status, Position, **Experience**, Place

Dependent Variables:

Monthly Income

Question 1:

Is there any relationship between **Monthly Income** and the independent variables (**B_Train**, **A_Train**, **Age**, **Experience**)? if yes then,

- a) **Monthly Income** is affected by which variable?
- b) What proportion of the total variation in **Monthly Income** is explained by the regression (predictors)?

Question 2:

Is there any relationship between **Physical Well-being** and the independent variables (**B_Train**, **A_Train**, **Age**, **Experience**)? if yes then,

- c) **Physical Well-being** is affected by which variable?
- d) What proportion of the total variation in **Physical Well-being** is explained by the regression (predictors)?

Question 3:

Is there any relationship between **Social Well-being** and the independent variables (**B_Train**, **A_Train**, **Age**, **Experience**)? if yes then,

- a) **Social Well-being** is affected by which variable?
- b) What proportion of the total variation in **Social Well-being** is explained by the regression (predictors)?

Question 4:

Is there any relationship between **Emotional Well-being** and the independent variables (**B_Train**, **A_Train**, **Age**, **Experience**)? if yes then,

- c) **Emotional Well-being** is affected by which variable?
- d) What proportion of the total variation in **Emotional Well-being** is explained by the regression (predictors)?

Question 5:

Is there any relationship between **Functional Well-being** and the independent variables (**B_Train, A_Train, Age, Experience**)? if yes then,

- a) **Emotional Well-being** is affected by which variable?
- b) What proportion of the total variation in **Emotional Well-being** is explained by the regression (predictors)?

Question 6:

Is there any relationship between **Total score** and the independent variables (**B_Train, A_Train, Age, Experience**)? if yes then,

- a) **Emotional Well-being** is affected by which variable?
- b) What proportion of the total variation in **Emotional Well-being** is explained by the regression (predictors)?

Assignment-6

CHI SQUARE (ASSOCIATION):

H₀₁: There is no association between Age Group and level of Physical Well-being

Age Group Vs Level of Physical Well-being
Age Group Vs Level of Social Well-being
Age Group Vs Level of Emotional Well-being
Age Group Vs Level of Functional Well-being
Age Group Vs Level of Total score

H₀₂: There is no association between Sex and level of Physical Well-being

Sex Vs Level of Physical Well-being
Sex Vs Level of Social Well-being
Sex Vs Level of Emotional Well-being
Sex Vs Level of Functional Well-being
Sex Vs Level of Total score

H₀₃: There is no association between Education Level and level of Physical Well-being

Education Level Vs Level of Physical Well-being
Education Level Vs Level of Social Well-being
Education Level Vs Level of Emotional Well-being
Education Level Vs Level of Functional Well-being
Education Level Vs Level of Total score

H₀₄: There is no association between Marital Status and level of Physical Well-being

Marital Status Vs Level of Physical Well-being
Marital Status Vs Level of Social Well-being
Marital Status Vs Level of Emotional Well-being
Marital Status Vs Level of Functional Well-being
Marital Status Vs Level of Total score

H₀₅: There is no association between **Income Group and **level of Physical Well-being****

Income Group Vs Level of Physical Well-being

Income Group Vs Level of Social Well-being

Income Group Vs Level of Emotional Well-being

Income Group Vs Level of Functional Well-being

Income Group Vs Level of Total score

H₀₆: There is no association between **Experience level and **level of Physical Well-being****

Experience level Vs Level of Physical Well-being,

Experience level Vs Level of Social Well-being,

Experience level Vs Level of Emotional Well-being,

Experience level Vs Level of Functional Well-being,

Experience level Vs Level of Total score

H₀₇: There is no association between **Place and **level of Function Well-being****

Place Vs Level of Physical Well-being

Place Vs Level of Social Well-being

Place Vs Level of Emotional Well-being

Place Vs Level of Functional Well-being

Place Vs Level of Total score

INFERENTIAL ANALYSIS:

Assignment-7

Independent t-test (Fisher t-test)

Test whether significant difference between Sex, Marital Status, Position, Place about Factors like Physical Well-being, Social Well-being, Emotional Well-being, Functional Well-being, Total score

Gender

- H₀₁: There is no significance difference in Monthly income between Male and Female
- H₀₂: There is no significance difference in Physical Well-being between Male and Female
- H₀₃: There is no significance difference in Social Well-being between Male and Female
- H₀₄: There is no significance difference in Emotional Well-being between Male and Female
- H₀₅: There is no significance difference in Functional Well-being between Male and Female
- H₀₆: There is no significance difference in Total score between Male and Female

Marital Status

- H₀₁: There is no significance difference in Monthly income between Married and Unmarried
- H₀₂: There is no significance difference in Physical Well-being between Married and Unmarried
- H₀₃: There is no significance difference in Social Well-being between Married and Unmarried
- H₀₄: There is no significance difference in Emotional Well-being between Married and Unmarried

H₀₅: There is no significance difference in Functional Well-being between Married and Unmarried

H₀₆: There is no significance difference in Total score between Married and Unmarried

Position of Staff

H₀₁: There is no significance difference in Monthly income between Senior and Junior

H₀₂: There is no significance difference in Physical Well-being between Senior and Junior

H₀₃: There is no significance difference in Social Well-being between Senior and Junior

H₀₄: There is no significance difference in Emotional Well-being between Senior and Junior

H₀₅: There is no significance difference in Functional Well-being between Senior and Junior

H₀₆: There is no significance difference in Total score between Senior and Junior

Place belongs to staff

H₀₁: There is no significance difference in Monthly income between Urban and Rural

H₀₂: There is no significance difference in Physical Well-being between Urban and Rural

H₀₃: There is no significance difference in Social Well-being between Urban and Rural

H₀₄: There is no significance difference in Emotional Well-being between Urban and Rural

H₀₅: There is no significance difference in Functional Well-being between Urban and Rural

Assignment-8

Paired t-test

All employees of company were tested to find their efficiency of work. They were given training after first test and were then retested. **Is the improvement in performances of employee?**

H₀₁: Performance of employees of Marketing department is same in both test

H₀₂: Performance of employees of HR is same in both test

H₀₃: Performance of employees of Production department is same in both test

H₀₄: Performance of employees of Finance department is same in both test

H₀₅: Performance of employees of **Purchase & Store department** is same in both test

Independent Variable: Test

Dependent variable: Marks

Assignment-9

ANOVA:

H₀₁: There is no significance difference in education level (Illiterate, Sr Secondary, Graduate, Post graduate)

Education Level Vs Level of Physical Well-being

Education Level Vs Level of Social Well-being

Education Level Vs Level of Emotional Well-being

Education Level Vs Level of Functional Well-being

Education Level Vs Level of Total score

H₀₂: There is no significance difference in Income group (Low, Medium, Heigh)

Income Group Vs Level of Physical Well-being

Income Group Vs Level of Social Well-being

Income Group Vs Level of Emotional Well-being

Income Group Vs Level of Functional Well-being

Income Group Vs Level of Total score

H₀₃: There is no significance difference in Experience level (Low, Medium, Heigh)

Experience level Vs Physical Well-being,

Experience level Vs Social Well-being,

Experience level Vs Emotional Well-being,

Experience level Vs Functional Well-being,

Experience level Vs Total score

Assignment-10

The Problem

To investigate monthly income is effected by Gender and Education.

Hypothesis

H_{01} : There is no significance difference between mean effects of **Gender**

H_{02} : There is no significance difference between mean effects of **Education** factor

H_{03} : There is no significance difference between mean effects of **Gender*Education**