Unit 2 Individual Project

Presented in Partial Fulfillment

Of the Requirements for the Class

QMB 350-09 Statistical Analysis

By

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**Email Sent To AIU**

Dear Research Team,

 Determining the job satisfaction will be done by utilizing the data within the datasets given for American Intellectual Union (AIU); looking at the intrinsic and extrinsic satisfaction scales of 25 different employees. The data used in this particular overview of probability of hiring more satisfied individuals is; gender, age, department, position, tenure, overall satisfaction, intrinsic satisfaction, extrinsic satisfaction, and benefits. Please note the following data.

**Data to Analyze**

**What is the gender distribution of % of females and % of males?**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | CumulativePercent |
| Valid Male Female Total | 141125 | 56.044.0100.0 | 56.044.0100.0 | 56.0100.0 |

% of Females = 44.0

% of Males = 56.0

**What is the “tenure with the company,” distribution by gender?**

Gender distribution chart:

|  |  |  |
| --- | --- | --- |
|  | Tenure | Total |
|  | Less than 2 yrs | 2 – 5 yrs | Over 5 yrs  |
| Gender Male FemaleTotal | 7613 | 336 | 426 | 141125 |

**What % of the survey participants are in each department?**

Department chart:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Department | Frequency | Percent | Valid Percent | Cumulative Total |
| Valid Human resources Information Tech Administration Total | 691025 | 24.036.040.0100.0 | 24.036.040.0100.0 | 24.060.0100.0 |

Survey participants in HR = 24.0

Survey participants in IT = 36.0

Survey participants in Admin = 40.0

**For each gender, what is the sample mean for overall satisfaction?**

For male the sample mean for overall satisfaction is = 5.028

For female the sample mean for overall satisfaction is = 5.227

**IF WE CHOOSE A PERSON AT RANDOM FROM THIS DATA BASE:**

**What is the probability that this person will be between 22 and 49 years old?**

Total number of persons between the age group 22 and 49 in dataset = 11

Total number of samples in dataset = 25

This gives the probability of chosen persons between ages 22 and 49 = 11/25

**What is the probability that their overall job satisfaction is 4.7 or lower?**

Total number of samples in dataset = 25

Number of people having overall job satisfaction that is 4.7 or lower in dataset = 12

This gives the probability that their overall job satisfaction is 4.7 or lower = 12/25

**What is the probability that this person would be a male in the IT department?**

Total number of males in dataset = 14

Number of persons will be a male in the IT department in the given dataset = 5

This gives the probability that this person would male in the IT department = 5/14

**What is the probability that this person would be an hourly employee whose intrinsic satisfaction is 6 or more?**

Total number of hourly employees in dataset = 15

Total number of hourly employees whose intrinsic satisfaction is 6 or more in dataset = 6

This gives the probability that this person would be an hourly employee whose intrinsic satisfaction is 6 or more = 6/15

References

Bluman, A.G., 2008. Elementary Statistics, *A Step By Step Approach,* (fourth edition).

 McGraw-Hill Companies, Inc., New York, NY.