ACTIVITY SOLUTION: USE ANALYTICAL TECHNIQUES TO ANALYZE DATA
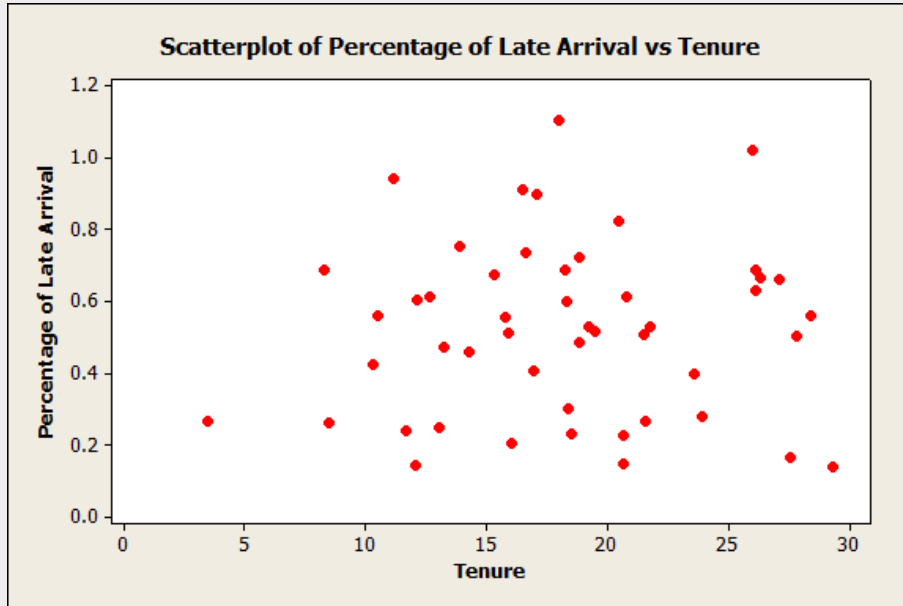
GUIDELINES:

YOUR TEAM HAS COLLECTED THE LATE ARRIVAL DATA OF MATRIX CORP. USE SCATTERPLOT & CORRELATION ANALYSIS TO IDENTIFY THE VITAL FEW ROOT CAUSES.

DATA FILES

PLEASE USE THE FOLLOWING FILES FROM THE RESOURCES SECTION:

- **ACTIVITY DATA - SCATTERPLOT AND CORRELATION ANALYSIS**

SOLUTION: SCATTERPLOT

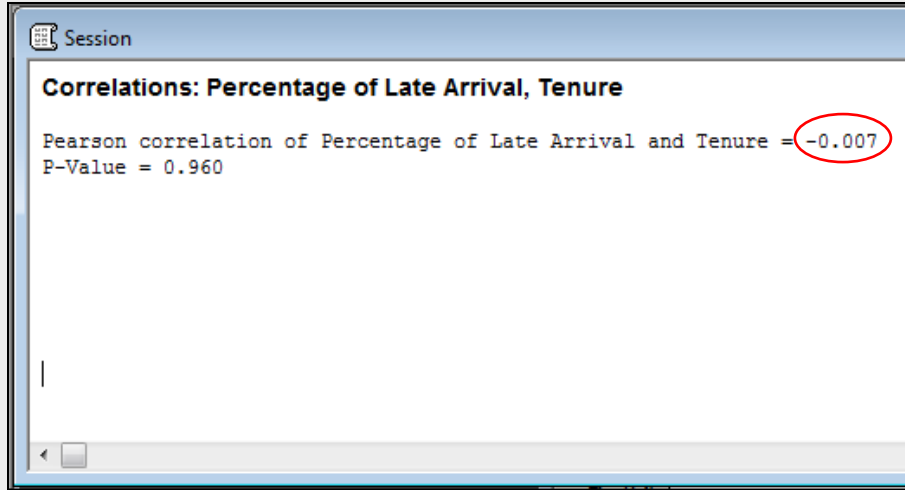Scatterplot of Percentage of Late Arrival vs Tenure

DATA FACTS:

- **TOTAL COUNT: SAMPLE OF 50 EMPLOYEES**

- **COMPARISON OF EMPLOYEE WISE LATE ARRIVAL % AND THEIR TENURE**

INFERENCE:
- **THE DIAGRAM LOOKS SCATTERED. THERE IS NO CORRELATION BETWEEN TENURE & PERCENTAGE OF LATE ARRIVALS.**

SOLUTION: CORRELATION ANALYSIS

Session

Correlations: Percentage of Late Arrival, Tenure

Pearson correlation of Percentage of Late Arrival and Tenure = -0.007
P-Value = 0.960

DATA FACTS:

- **TOTAL COUNT: SAMPLE OF 50 EMPLOYEES**

- **COMPARISON OF EMPLOYEE WISE LATE ARRIVAL % AND THEIR TENURE**

INFERENCE:
- **PEARSON'S CORRELATION COEFFICIENT VALUE IS -0.007**
- **IT IS VERY CLOSE TO 0**
- **THIS CONFIRMS THAT THERE IS NO CORRELATION BETWEEN TENURE AND PERCENTAGE OF LATE ARRIVALS**