**Question 1:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Mean | Median | Standard Deviation | Variance | Range | Minimum | Maximum |
| Full Time Enrollment | 165.16 | 126 | 140.84 | 19836.22 | 12-463 | 12 | 463 |
| Student per Faculty | 8.48 | 7 | 5.06 | 25.60 | 2-19 | 2 | 19 |
| Local Tuition | 12374.92 | 11513 | 7778.42 | 60503872 | 1000-33060 | 1000 | 33060 |
| Foreign Tuition | 16581.8 | 17765 | 9134.85 | 38445412 | 1000-33060 | 1000 | 33060 |
| Age | 28.36 | 29 | 3.79 | 14.33 | 22-37 | 22 | 37 |
| %Foreign | 43.16 | 10.5 | 66.04 | 4361.82 | 0-70 | 0 | 70 |
| Starting Salary | 37292 | 41400 | 23459.25 | 550336600 | 7000-87000 | 7000 | 87000 |

Insights:

* Full Time Enrollment shows huge differences between the minimum and maximum value among Asia-Pacific business schools which indicates the high variability and dispersion
* Values of Student per Faculty range from 2 to 19, with the mean of 8.48, which reflects the variability of per-capita educational resources among different schools
* There is not much difference between the fees of local and foreign tuitions
* In Asian-Pacific business schools, average age of students enrolled is 28
* Starting salaries for few schools appear to be inappropriately high compared to others
* The starting salaries are higher of the schools which have higher number of foreign students

**Question 2A:**

* There is marginal change between local and foreign tuition costs.
* The difference between the local and foreign tuition fees in some schools is represented by the spikes in the above graph

Chart, line chart

Description automatically generated

**Question 2B:**

* The mean starting salaries for schools requiring work experience is more than not requiring work experience.

|  |  |
| --- | --- |
| Requiring Work experience | Not Requiring work experience |
| 71,400 | 7,100 |
| 65,200 | 31,000 |
| 22,800 | 87,000 |
| 43,300 | 7,500 |
| 46,600 | 7,400 |
| 49,300 | 7,500 |
| 49,600 |  |
| 34,000 |  |
| 60,100 |  |
| 17,600 |  |
| 52,500 |  |
| 25,000 |  |
| 66,000 |  |
| 41,400 |  |
| 48,900 |  |
| 7,000 |  |
| 55,000 |  |
| 16,000 |  |
| 13,100 |  |
| Mean: 41305.26 | **Mean: 24583.33** |

**Question 2C:**

* The mean starting salaries for schools requiring English test is more than not requiring English test.

|  |  |
| --- | --- |
| English test required | English test not required |
| 87,000 | 71,400 |
| 43,300 | 65,200 |
| 46,600 | 7,100 |
| 52,500 | 31,000 |
| 25,000 | 22,800 |
| 41,400 | 7,500 |
| 48,900 | 7,400 |
| 16,000 | 49,300 |
|  | 49,600 |
|  | 34,000 |
|  | 60,100 |
|  | 17,600 |
|  | 66,000 |
|  | 7,000 |
|  | 55,000 |
|  | 7,500 |
|  | 13,100 |
| Mean: 45087.5 | **Mean: 33623.53** |

**Question 3:**

* Visual Measures:

* + The local tuition appears to be directly proportional to starting salary barring a few exceptions which are clear from few spikes in below graph

Chart, line chart

Description automatically generated

* + The relation between foreign tuition and starting salary seems to be erratic with many spikes all over the graph below

Chart, line chart

Description automatically generated

* Numerical Measures:
  + Correlation coefficient is a measure of relationship between the two variables. The value is calculated by Pearson method
  + The correlation coefficient for local tuition vs starting salary is closer to 1.0 which resembles strong positive linear relationship
  + The correlation coefficient for foreign tuition vs starting salary is not that close to 1.0 but still greater than 0.5 which resembles weak positive linear relationship

|  |  |  |
| --- | --- | --- |
|  | Local Tuition Vs Starting Salary | Foreign Tuition Vs Starting Salary |
| Correlation Coefficient | 0.785 | 0.666 |
| Linear Relationship | More Positive | Less Positive |

**Question 4:**

* The quartiles values are as mentioned in the graph below. The IQR value is **36500**.
* The minimum and maximum values of the boxplot are -**38750** and **107250** respectively.
* The minimum and maximum values of starting salaries are **7000** and **87000** which are within the range of the boxplot
* Hence, there are no outliers in the starting salary data Chart, box and whisker chart

  Description automatically generated

**Q3**

**52500**

**Q1**

**16000**

**Q2**

**41400**