# Suplari Data Exercise

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**1. What are the top 10 suppliers for 2017 and how much is spent on each supplier?**

|  |  |  |  |
| --- | --- | --- | --- |
| Rank | Supplier | Amount spent |  |
| 1 | IBM | Chart, bar chart, funnel chart  Description automatically generated4,559,476 |  |
| 2 | CDW DIRECT | 3,453,158 |  |
| 3 | APPLE, INC. | 2,408,586 |  |
| 4 | CENTURYLINK | 2,243,072 |  |
| 5 | MICROSOFT CORPORATION | 2,178,931 |  |
| 6 | SMART IMS, INC | 1,729,185 |  |
| 7 | AMAZON AWS | 1,668,552 |  |
| 8 | ORACLE, INC. | 1,529,637 |  |
| 9 | DATAART SOLUTIONS, INC | 1,270,112 |  |
| 10 | SALESFORCE.COM, INC. | 1,240,089 |  |

**2. Which business unit was the top spender so far in 2017?**

|  |  |  |  |
| --- | --- | --- | --- |
| Rank | Supplier | Amount spent |  |
| 1 | Techtrades, Inc. (HQ) | 32,556,508 |  |
| 2 | Techtrades LTD (UK) | 13,484,203 | Chart, bar chart  Description automatically generated |
| 3 | Zeus Banking, Inc | 1,431,102 |  |
| 4 | Techtrades NK (Japan) | 843,158 |  |

**3. Compare the top 10 suppliers in 2017 to the top suppliers in 2016**

The table below shows that the amount spent by the top 10 suppliers in 2016 declined for the year 2017. However, two of the top 10 suppliers in 2017 increased the amount spent in comparison to 2016. IBM and CDW Direct remained as the top suppliers in both years, even considering the decline in amount spent.

|  |  |  |  |
| --- | --- | --- | --- |
| Supplier | Amount spent | |  |
|  | 2016 | 2017 | Change |
| IBM | 6,773,291 | 4,559,476 | -49% |
| CDW DIRECT | 5,818,678 | 3,453,158 | -69% |
| ORACLE, INC. | 3,892,199 | 1,529,637 | -154% |
| SALESFORCE.COM, INC. | 3,884,109 | 1,240,089 | -213% |
| DATAART SOLUTIONS, INC | 2,673,468 | 1,270,112 | -110% |
| APPLE, INC. | 2,611,532 | 2,408,586 | -8% |
| SMART IMS, INC | 2,374,320 | 1,729,185 | -37% |
| AMAZON AWS | 2,232,727 | 1,668,552 | -34% |
| OXFORD HEALTH INSURANCE, INC | 2,049,244 | 13,411 | -15180% |
| OFFICE DEPOT | 1,884,776 | 1,007,952 | -87% |
| CENTURYLINK | 1,701,521 | 2,243,072 | 24% |
| MICROSOFT CORPORATION | 1,815,914 | 2,178,931 | 17% |

**4. How many transactions were recorded for 2015, 2016, and 2017 respectively?**

|  |  |
| --- | --- |
| Year | Number of transactions |
| 2017 | 189,858 |
| 2016 | 348,170 |
| 2015 | 425,318 |
|  |  |