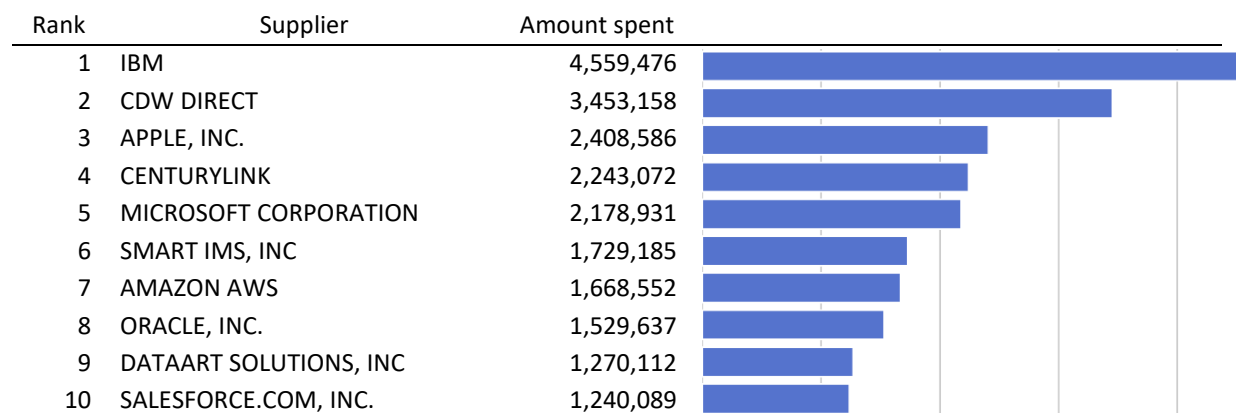


## Suplari Data Exercise

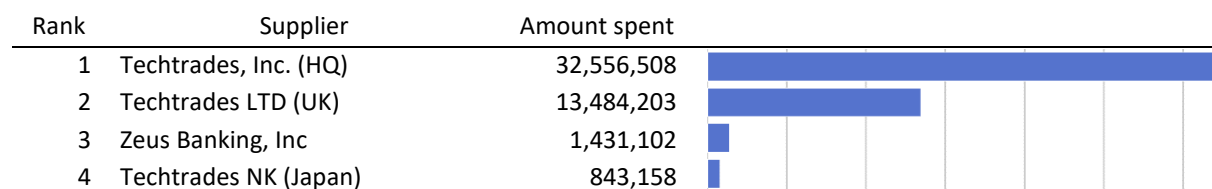
Francisco Galan

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



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



### 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		Change
	2016	2017	
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