

Assignment

Module 1

on 266-953881-701000 INTRO TO INFO RETRIEVE

What DB should I learn after Java?

```
=====Java=====
oracle + java: 913 of 1392 (65.59%)
mysql + java: 397 of 667 (59.52%)
microsoft sql server + java: 239 of 868 (27.53%)
postgresql + java: 161 of 261 (61.69%)
mongodb + java: 166 of 296 (56.08%)
redis + java: 40 of 106 (37.74%)
elasticsearch + java: 112 of 161 (69.57%)
ibm db2 + java: 33 of 48 (68.75%)
sqlite + java: 5 of 28 (17.86%)
microsoft access + java: 78 of 256 (30.47%)
```

Based on the result, 'Elasticsearch' has the highest percentage which is 69.57%. But if considering the raw number, 'Oracle' has the highest usage with 913 out of 1392, which is a larger absolute number compared to 'Elasticsearch' with 112 out of 161.

That means that 'Oracle' is more widely used in combination with Java.

Which DB is in demand alongside Oracle?

```
=====Oracle=====
oracle + oracle: 1392 of 1392 (100.0%)
mysql + oracle: 312 of 667 (46.78%)
microsoft sql server + oracle: 195 of 868 (22.47%)
postgresql + oracle: 100 of 261 (38.31%)
mongodb + oracle: 104 of 296 (35.14%)
redis + oracle: 12 of 106 (11.32%)
elasticsearch + oracle: 32 of 161 (19.88%)
ibm db2 + oracle: 23 of 48 (47.92%)
sqlite + oracle: 17 of 28 (60.71%)
microsoft access + oracle: 51 of 256 (19.92%)
```

Based on the result, 'MySQL' has the highest percentage which is 46.78%. If considering the raw number, 'MySQL' is still the highest usage with 312 out of 667.

What programming language is in demand alongside Python?

```
=====Programming Languages alongside Python=====
Python + java: 830 of 1379 (60.19%)
Python + python: 1379 of 1379 (100.0%)
Python + c: 689 of 1379 (49.96%)
Python + kotlin: 6 of 1379 (0.44%)
Python + swift: 37 of 1379 (2.68%)
Python + rust: 6 of 1379 (0.44%)
Python + ruby: 181 of 1379 (13.13%)
Python + scala: 76 of 1379 (5.51%)
Python + julia: 1 of 1379 (0.07%)
Python + lua: 11 of 1379 (0.8%)
```

Based on the result, 'Java' has the highest percentage which is 60.19%. If considering the raw number, 'Java' is still the highest usage with 830 out of 1379, which is more widely used.

Create one question beginning with "WHY" that can be answered using the data we've analyzed during this class. Then, provide your solution to the question.

WHY does Python + Kotlin have a relatively low usage percentage of 0.44% in our analysis of programming language combinations?

Solution: The low usage percentage of Python + Kotlin (0.44%) means that, within the analyzed dataset, there is limited occurrence of Python being used alongside Kotlin. This could be attributed to factors such as differing use cases, or community preferences.