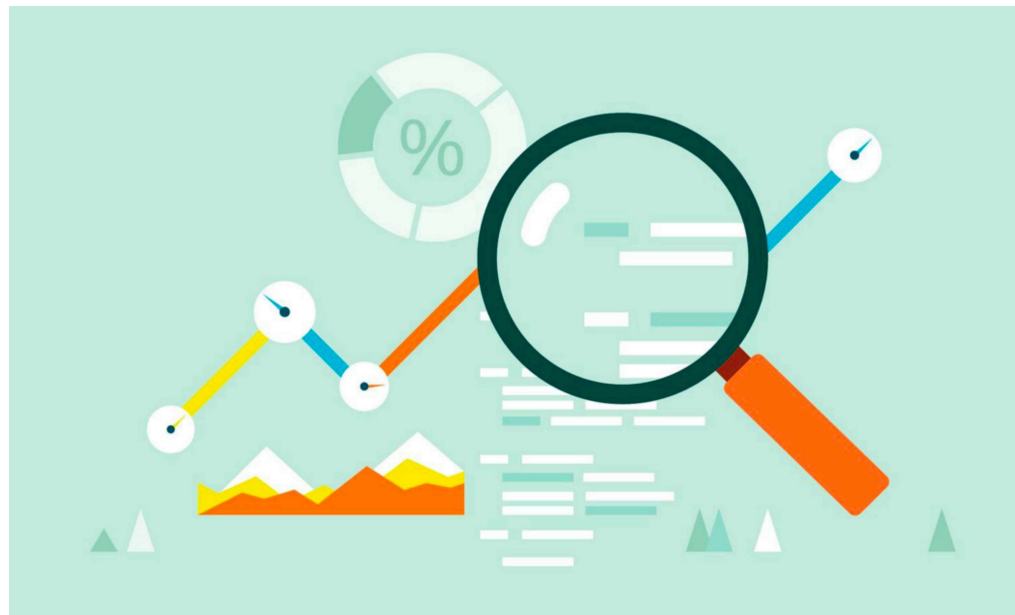


# Data Science

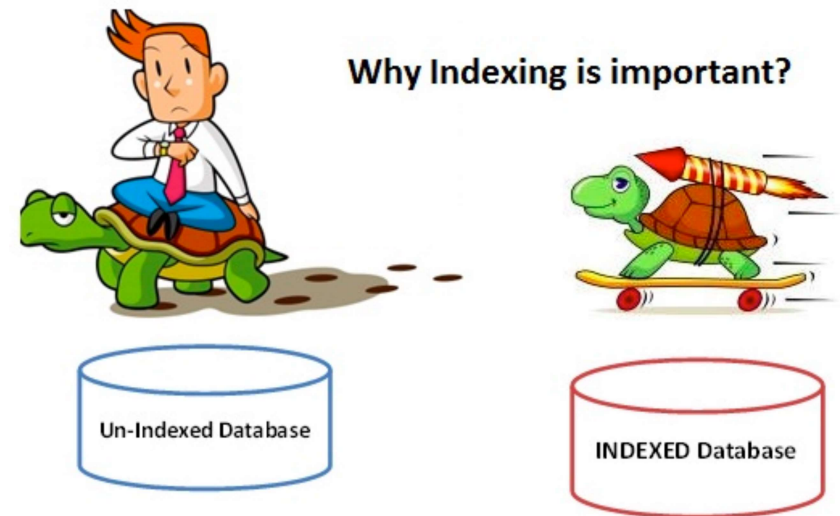




# Indexing

# Indexing

- Indexing is a way to optimize our search queries on large databases. With the help of indexing, we can avoid scanning the whole table to obtain the results we are looking for.
- In more formal terms, indexes in database is a kind of data structure that improves the speed of operations in a table.





# Indexing



# SQLite

# SQLite



- 
- It is a relational database management system based on the SQL language.
  - It is self-contained, serverless and zero-configuration.
  - It is very fast and lightweight, and the entire database is stored in a single disk file.
  - The lite in SQLite means light weight in terms of setup, database administration, and required resource.
  - It is used in a lot of applications as internal data storage.
- 
- A solid orange horizontal bar spanning the width of the slide at the bottom.

# SQLite with Python

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- mysqlalchemy
- sqlite3

# DB Browser

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- It will help us to see the databases being created and edited in real time.
- Link - <https://sqlitebrowser.org/>





# Connect with database

# Connect with database

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- Import sqlite3
- Connect with database
- Create cursor object
- Execute commands