Important websites

https://www.fullstackpython.com/table-of-contents.html

for more detailed information on python based tools

https://github.com/techwithtim/5-Python-Projects-For-Beginners

mini projects for python

https://www.freecodecamp.org/news/pass-the-aws-developer-associate-exam-with-this-free-16-hour-course/

AWS course for associate

https://www.interviewbit.com/

for interview prep

https://www.freecodecamp.org/learn/scientific-computing-with-python/

Python language course

https://www.freecodecamp.org/learn/relational-database/#learn-relational-databases-by-building-a-mario-database

database learning course

https://www.programiz.com/dsa

DS and A course

https://www.hackerrank.com/dashboard

practice language

https://coggle.it/diagram/YbbsGbgXoY0I9vS1/t/preparation

Mind mapping

https://courses.edx.org/dashboard

Harvard course

https://classroom.udacity.com/me

language course

https://leetcode.com/

practice once prepared

https://refactoring.guru/

learn design patterns

https://www.w3schools.com/python/python_conditions.asp

for learning with best example

Database types

1. Key-Value Database - Redis, Memcached, etcd

#Like JSON, SET(to add value), GET(to retrieve), data held in machine memory not on hard disk. Thus, Superfast and mainly used for cache, PUB/SUB etc.

2. Wide Column Database - Cassandra, Hbase

Handles unstructured data, uses CQL(Contextual Query Language), mainly for storing history etc.

3. Document Oriented Database - MongoDB, Firestore etc.

JSON unstructured document

4. Relational Database - MySQL, PostgreSQL etc.

Uses SQL and also ACID compliant

Cockroach Labs - More optimized for scalability

5. Graph - Neo4j, Dgraph

Uses Cypher for querying, often used in building knowledge base, recommendation engine etc.

6. Search Engine - elastic, Solr(Most of them are on the top of Apache lucene project)

Cloud Based - Algolia, MeiliSearch

These are Full Text database. An index like in the back of the book is created. On search, an index is searched on the object.

7. Multi-Model Database - FaunaDB

Uses GraphQL

Just define how want to consume data, and it will automatically figure out how to take the best advantage of all paradigms.

The best.

Other data warehouse, time-series