

ROADMAP TO BECOME AZURE DATA ENGINEER

PRE-REQUISITES

1. SQL

Basics - <https://www.youtube.com/playlist?list=PLtgiThe4j67rAoPmnCQmcgL54ilc5ungg>

Advanced - <https://lnkd.in/dPPpttHg>

Practice problems (this will help you build a logic) - <https://lnkd.in/dWCVfXsA>

Best Platforms to SQL problems daily:

- Dataford - <https://lnkd.in/gtqdw864>
- LeetCode - <https://lnkd.in/gkCpv7NA>
- Namaste SQL - <https://lnkd.in/gQTuepVf>
- HackerRank - <https://lnkd.in/gnFS4frz>
- SQLZoo - <https://sqlzoo.net/>
- Mode Analytics - <https://lnkd.in/gRPrQrf5>
- SQL Bolt - <https://sqlbolt.com/>
- GeeksforGeeks - <https://lnkd.in/ggYbizNB>
- LearnSQL - <https://www.learnsql.com/>
- LearnMode - <https://lnkd.in/gQYCKwS2>
- Strata Scratch - <https://lnkd.in/gYtZQY53>
- DataLemur - <https://datalemur.com/>
- SQL Fiddle - <http://sqlfiddle.com/>
- DB-Fiddle - <https://www.db-fiddle.com/>
- SQL Exercises - <https://lnkd.in/d89TewuQ>
- SQL Practice Set - <https://lnkd.in/ddn7hfeu>
- DataCamp - <https://lnkd.in/dUyvbSwC>
- Kaggle - <https://lnkd.in/dn83kbwv>
- Mode SQL Tutorial - <https://lnkd.in/d53iPD-U>
- SQL Murder Mystery - <https://lnkd.in/dtVqDV-g>

2. Python

Fundamentals -

<https://www.youtube.com/playlist?list=PLTsNSGelpGnEpkKQfQuOWmT85Pvsx1BWY>

Pandas - https://lnkd.in/dt_-2-Uj

NumPy - <https://lnkd.in/dqvnAmSK>

Matplotlib - <https://lnkd.in/gTY4pZgu>

3. Data Warehousing s Data Modeling

20 Video Series by Manish Kumar

<https://www.youtube.com/watch?v=UiTvqSd52akClist=PLTsNSGelpGnGP8A74Ie1PgqHhewsqD3fv>

5 Best Articles on Data Modeling

Part 1 - <https://medium.com/@seancoyne/cracking-the-data-modeling-interview-part-1-an-overview-b09e7d5a7938>

part 2 - <https://medium.com/@seancoyne/cracking-the-data-modeling-interview-part-2-normalization-indexes-and-partitioning-fac334d767ca>

Part 3 - <https://medium.com/@seancoyne/cracking-the-data-modeling-interview-part-3-slowly-changing-dimensions-e33118de7fd1>

Part 4 - <https://medium.com/@seancoyne/cracking-the-data-modeling-interview-part-4-designing-efficient-data-structures-625a78d5fe6c>

Part 5 - <https://www.holistics.io/books/setup-analytics/kimball-s-dimensional-data-modeling/>

4. Linux

Master all Linux Commands for Data Engineering in just one video -

<https://www.youtube.com/watch?v=w1apcBWgJ0w>

AFTER PRE-REQUISITES START WITH BELOW THINGS

5. Pyspark/Databricks

1. **Udemy course** = <https://www.udemy.com/course/azure-databricks-spark-core-for-data-engineers/?couponCode=ST3MT200225A>
2. **Interview questions** = https://www.youtube.com/playlist?list=PLxy0DxWEupiODTF_xM5Lw1ghc0XtLCUhC

6. Azure Cloud

There are around 10 services which we need to learn as an Azure Data Engineer

1. Azure Data Factory - ETL
2. Data bricks
3. Azure Synapse Analytics
4. Azure Data Lake Storage/Azure Blob Storage
5. Azure Stream Analytics
6. Azure Cosmos DB
7. HDInsight
8. Azure Logic Apps
9. Azure Functions
10. Microsoft Fabric

First 3 are the most important once.

1. **Azure Data Factory**
<https://www.youtube.com/playlist?list=PLxy0DxWEupiOnvh9Ujf-yS0IQzpokKjGf>
2. **Data bricks**
<https://www.udemy.com/course/azure-databricks-spark-core-for-data-engineers/?couponCode=ST3MT200225A>
3. **Azure Synapse Analytics**
https://www.youtube.com/playlist?list=PLMWaZteqtEaIZxPCw_0AO1GsQESq3hZc6
4. **Azure Data Lake Storage/Azure Blob Storage**
5. **Azure Stream Analytics**
6. **Azure Cosmos DB**
7. **HDInsight**
<https://www.udemy.com/course/microsoft-azure-database-and-analytics/?couponCode=ST3MT200225A>

8. **Azure Logic Apps**

https://www.youtube.com/playlist?list=PLUYdS0azaz13w0o-_DsSL2qxRWuOfQVWh

9. **Azure Functions**

https://www.youtube.com/playlist?list=PLMWaZteqtEaLRsSynAsaS_aLzDPBUU4CV

10. **Microsoft Fabric**

<https://www.youtube.com/playlist?list=PLMWaZteqtEaLm10IKzSzwJ5JyOFPj0ZcU>

7. GIT/GITLAB/CICD

1. <https://www.youtube.com/watch?v=Ez8F0nW6S-w>
2. <https://www.youtube.com/watch?v=qP8kir2GUgo>

8. Azure Project (End to End)

1. <https://www.youtube.com/watch?v=laA9YNlg5hMClist=PLBJe2dFI4sgvQTNNkI3ETYJgNPR4CBpFdCindex=6Ct=5s>
2. <https://www.youtube.com/watch?v=d3Vw3VtKDnc>
3. <https://www.youtube.com/watch?v=0GTZ-12hYtU>

G. Finally Real time exposure to Azure Environment - portal.azure.com

10. Interview Preparation

Get 100+ Real time Data Engineering Interview Experiences faced by candidates -

https://topmate.io/shubham_wadekar/1400073

Complete Interview Preparation KIT for Azure Data Engineers (will be uploading soon) -

https://topmate.io/shubham_wadekar

11. Certification

DP - 700, Microsoft Certified: Fabric Data Engineer Associate

<https://learn.microsoft.com/en-us/credentials/certifications/fabric-data-engineer-associate/?practice-assessment-type=certification>