

## ENDAVA INTERNSHIP PROGRAMME | AUTUMN 2023 STUDY MATERIALS FOR DATA ENGINEER

A **Data Engineer/DataOps** is the person responsible for data availability and storing, database management, security, and data transformation. This role is supposed to set up routines/processes and services that allow data to remain highly available and accessible for demanding consumers. It also comprises data integrity control, replication, secure data exposure, performance tuning, maintenance, viable backup procedures, planning, etc. And for ideal recipes some continuous troubleshooting, automation, and innovation are essential. So, **Data Engineer/DataOps** is an interesting, challenging, and demanding role in the market and is a role of your choice.

To be better equipped for the qualifying test and interview, we encourage you to examine the **studying materials**, recommended for **Data Engineering** internship:

- **Data Modeling / DBMS:**  
<https://www.guru99.com/data-modeling-interview-questions-answers.html>  
<https://www.guru99.com/dbms-tutorial.html>  
<https://www.guru99.com/data-modelling-conceptual-logical.html>
- **SQL / T-SQL / PL-SQL:**  
<https://www.guru99.com/sql.html>  
<https://www.guru99.com/ms-sql-server-tutorial.html>  
<https://www.guru99.com/sql-vs-pl-sql.html>
- **DB administration:**  
<https://docs.oracle.com/en/database/oracle/oracle-database/19/cncpt/introduction-to-oracle-database.html#GUID-CF765A7D-9429-4901-BF33-36E0B0220293>  
<https://dotnettutorials.net/course/oracle-dba-tutorials/>
- **Cloud concepts:**  
<https://docs.microsoft.com/en-us/learn/paths/azure-fundamentals/>  
<https://aws.amazon.com/getting-started/>
- **Cloud DB RDS:**  
<https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Welcome.html>  
<https://www.techtarget.com/searchaws/definition/Amazon-Relational-Database-Service-RDS>  
<https://www.javatpoint.com/amazon-relational-database-service>

- **DB Replication:**  
<https://www.arcion.io/learn/database-replication#:~:text=Database%20replication%20is%20the%20process,are%20using%20to%20access%20it.>  
<https://www.striim.com/blog/a-guide-to-modern-database-replication/>
  - **Kafka essentials:**  
<https://kafka.apache.org/quickstart>  
<https://www.javatpoint.com/apache-kafka>  
<https://developer.confluent.io/what-is-apache-kafka/>
  - **Bash scripting fundamentals:**  
<https://www.freecodecamp.org/news/bash-scripting-tutorial-linux-shell-script-and-command-line-for-beginners/>  
<https://linuxconfig.org/bash-scripting-tutorial>  
<https://ryanstutorials.net/bash-scripting-tutorial/>
- Data migration essentials:**  
[What is Data Migration? | Microsoft Azure](#)  
[Cloud Data Migration on AWS | Amazon Web Services](#)
- **Test your English:**  
<https://learnenglish.britishcouncil.org/online-english-level-test>