



Database Tutorials 2017

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On behalf of IT-DB



Practical Notes

- Videoconference Rooms
 - Database_Tutorials
 - Please use microphones when speaking
- Tea/Coffee breaks
- WIT Diversity Talk, 12:00
 - Professor Sijbrand de Jong, CERN Council President
 - <https://indico.cern.ch/event/672852/>

Database Services Introduction

- Database on Demand
 - User-managed database instances
 - MySQL
 - PostgreSQL
 - InfluxDB
- Oracle Service
 - Centrally managed Oracle databases
 - General purpose
 - Experiment/project dedicated

Database Services Introduction

- **Middleware Services**
 - Databases Applications: Oracle Weblogic based + 3rd party applications
 - Critical services only – approval required
- **Scalable Analytics Solutions**
 - Hadoop Service
 - Data ingestion
 - Streaming Analytics
 - Analytics applications (Spark, ...)
 - Streaming Data Service, based on Apache Kafka

Database Services Introduction

Database on Demand & Oracle database Service

<https://resources.web.cern.ch/resources/Manage/ListServices.aspx>

Hadoop Service

<http://information-technology.web.cern.ch/services/Hadoop-Service>

Streaming Data Service

<http://information-technology.web.cern.ch/services/Streaming-Data-Services>

Database Services Introduction

- Monitoring
- Backup & Recovery
- Data import/export
- Other tools (session manager, action manager, ...)

Database vs Schema vs User vs Role

- Oracle
 - Database \neq Schema
 - User = Schema
 - User \neq Role
- MySQL
 - Database = Schema
 - User \neq Schema
 - User \neq Role
- PostgreSQL
 - Database \neq Schema
 - User \neq Schema
 - User = Role

Useful Links

- <http://oracle-documentation.web.cern.ch/oracle-documentation/>
- <https://cern.ch/dbod-user-guide>
- <https://gitlab.cern.ch/db/hadoop-tutorials-2016>
- <http://nile-user-guide.web.cern.ch/nile-user-guide>
- **CERN Service Portal**

Other Tutorials & Trainings

- Database On Demand:
<https://indico.cern.ch/event/664210/>
- Oracle Tutorials 2013:
<https://indico.cern.ch/category/4779/>
- Introduction and overview to Hadoop ecosystem and Spark: <http://cern.ch/go/gxq6>
 - 28th-29th November

