

# Welcome to this live webinar on Archiving databases: Why, what and how?

Start 10:00

20 June 2025

#### **Audience notes for the Live Webinar**



Your cameras have been turned off and microphones muted.



If you have any technical issues during the event, please use the chat function.



Please use the Q&A for questions to speakers. These will be addressed at the end of the event.



Please note that this webinar is recorded. No attendee personal information will be captured in these recordings.

#### **Agenda**

10:00 – 10:05 **eArchiving Initiative welcome**Jaime Kaminski – eArchiving Initiative

10:05 - 10:50

**Archiving databases: Why, what and how?** 

Koit Saarevet, National Archives of Estonia

10:50 - 11:00

Q&A



# Archiving databases: Why, what and how?

Koit Saarevet, National Archives of Estonia

eArchiving Initiative Training Webinar

### Contents

- 1. Legal
- 2. Database models
- 3. What to archive?
- 4. Process
- 5. Descriptions
- 6. Tools





#### **Archives Act**

- Subsection 2(1): A record is information recorded on any medium /.../.
- Subsection 2(2): Archival records are records to which archival value has been granted by a public archives as the result of an appraisal.
- Subsection 2(4): Archival records created or received in the course of performance of public duties shall be transferred to the National Archives /.../.

https://www.riigiteataja.ee/en/eli/521032019019/consolide



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# NAE appraisal decisions

- HO 51/2017: Identification of databases with archival value
- Institutional appraisals, where AV is given to a specific database
- Other appraisals, if a series that received AV in them has moved to a database



# https://www.ra.ee/arhiivihaldus/hindamisotsused/

NAE appraisal decisions:

# 78

https://www.ra.ee/astra/site/databases



# DATABASE MODELS

## **Database models**

- Relational
- Tree
- Network
- Object
- Document
- Star

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NoSQL



# SQL = Structured Query Language

SELECT \* FROM city;

# NoSQL

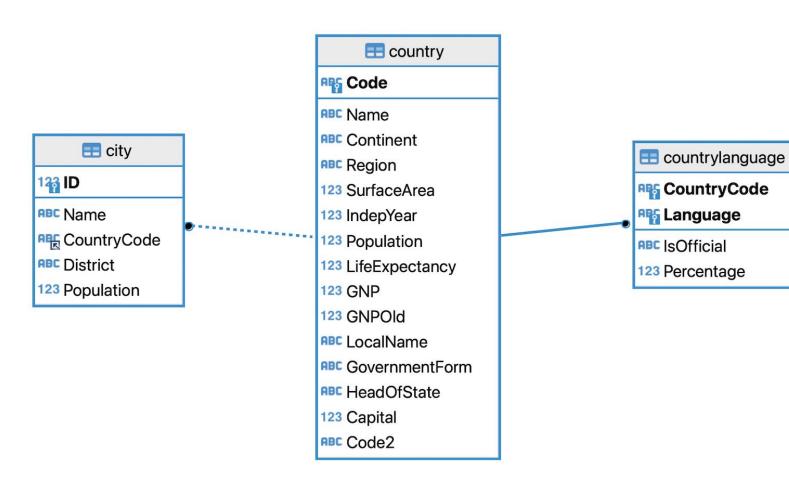
Non-SQL → non-relational

Not only SQL

#### Relational database

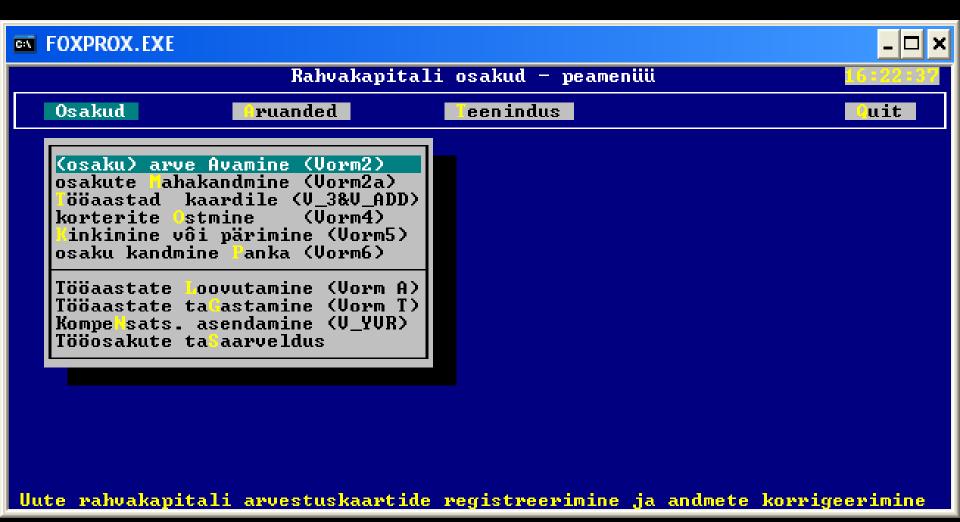
- Data is stored in tables and columns
- Relationships between tables are through the values of data fields
- ... i.e. if two tables are related, they must have a column with the same meaning

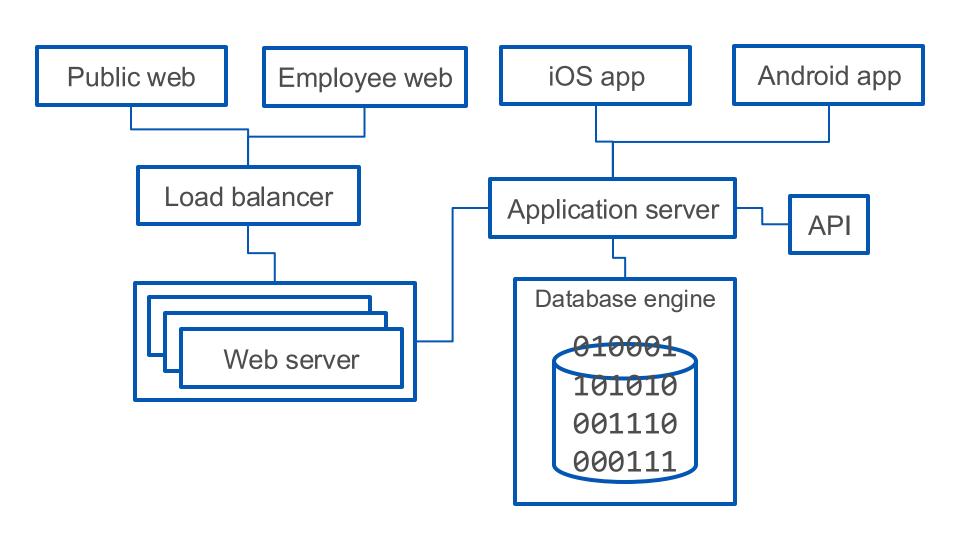


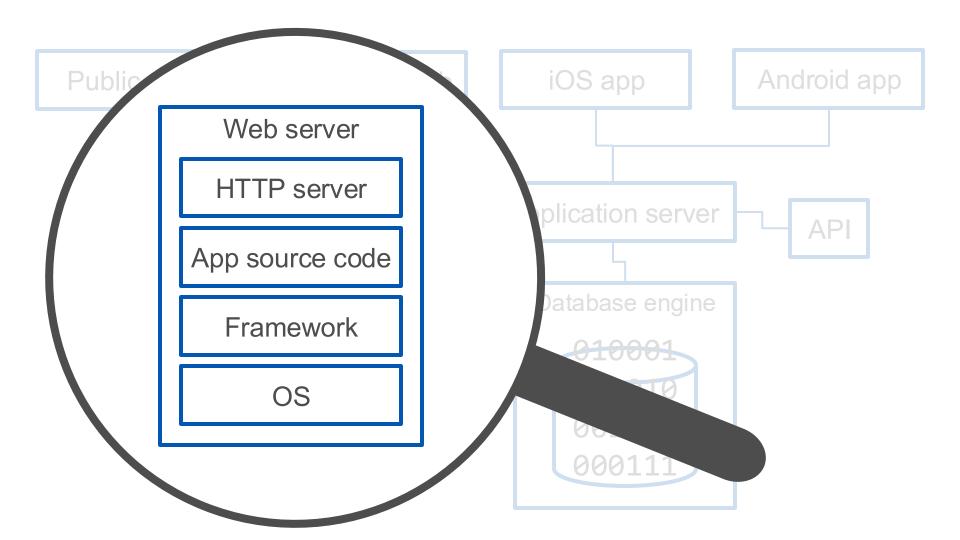


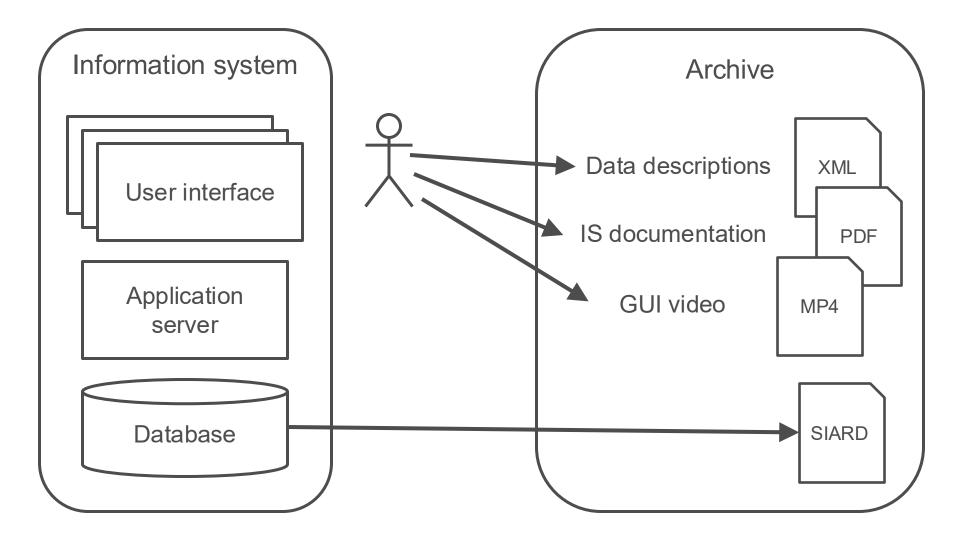


# WHAT TO ARCHIVE?









# SIARD = Software Independent Archiving of Relational Databases

010001101010001110000111



```
<siardArchive>
   <dbname>FR</dbname>
   <description>Forest registry
   </description>
   <archiver>Koit Saarevet
   </archiver>
</siardArchive>
```

#### SIARD

- De facto standard for archiving relational databases (used in most government archives worldwide)
- First issued in 2004, major updates in 2008 and 2016, smaller ones 2019 and 2021
- https://dilcis.eu/content-types/siard



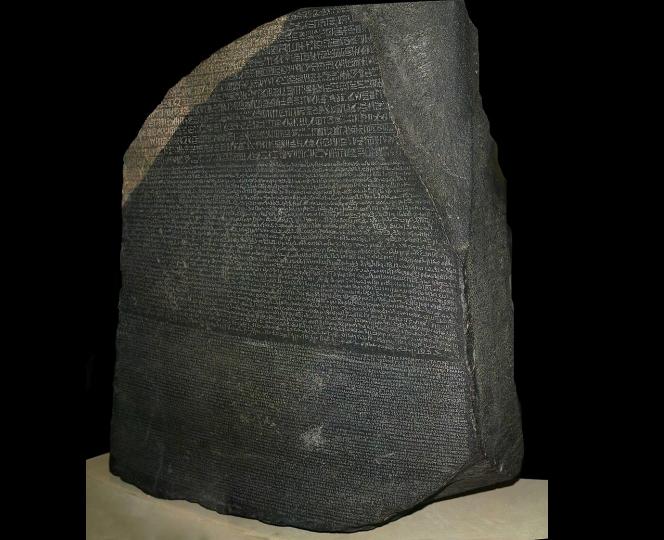


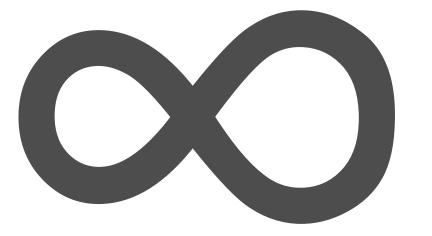
# **PROCESS**

1. Initiation
2. Kick-off
3. Cloning the DB
4. Test snapshot 1
5. Appraisal
6. Test snapshot 2
7. Final snapshot
8. Documentation
9. Finalising



# **DESCRIPTIONS**





# **Archival descriptions**

- Title
- Dates
- Archival history
- Scope and content
- •



## **Technical documentation**

- Data model (conceptual, logical, physical)
  - Table and column descriptions
  - Entity-Relationship Diagram
- Data descriptions (semantics, ontologies)
- Architecture
- User guides
- •



# **TOOLS**



EET en\_EE Writable

Smart Insert

1:26:25

Sel: 0 | 0

Smart Insert

2:62:117

Sel: 0 | 0

EET en\_EE Writable

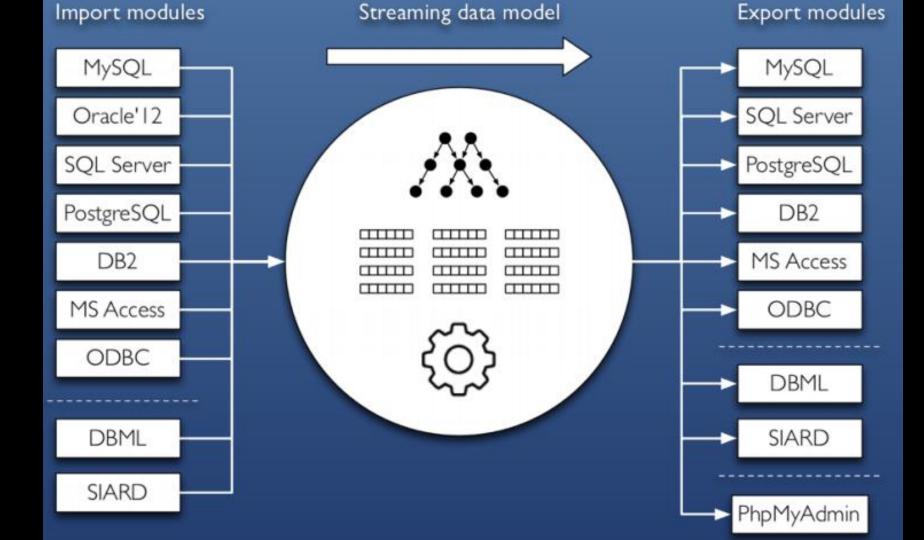


https://database-preservation.com

# Database Preservation Toolkit (DBPTK)

- Open-source solution for
  - Creating SIARD files
  - Simple full-text search of data stored in a SIARD file
  - Visualisation of database structure
- Developed by KEEP Solutions (Portugal)
  - https://www.database-preservation.com/
  - https://www.keep.pt/en





# Create a SIARD file of "world" database

- Open dbptk-desktop
- Select "Create"
- Select "MySQL"
  - Hostname: localhost
  - Port number: /do not change/
  - Username: /enter your database admin user name/
  - Password: /enter your database admin password/
  - Database: world
  - Disable Encryption: yes
- Follow the wizard, create the database snapshot!



# **DBPTK** Developer command line

Instructions at:

https://github.com/keeps/dbptk-developer/wiki/Application-usage

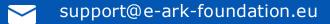




#### Thank you

#### **Contact**





https://www.linkedin.com/groups/8343650

https://bsky.app/profile/euearchiving.bsky.social

https://www.youtube.com/@e-ark