

# Social media with a little help of AI

Heli Helskyaho, Jari Laine  
Miracle Finland Oy

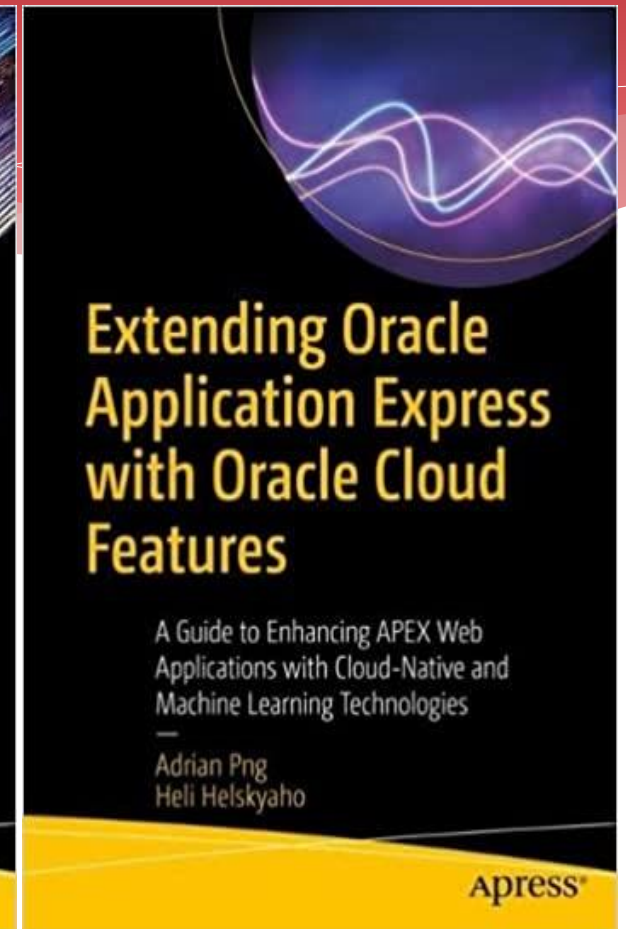
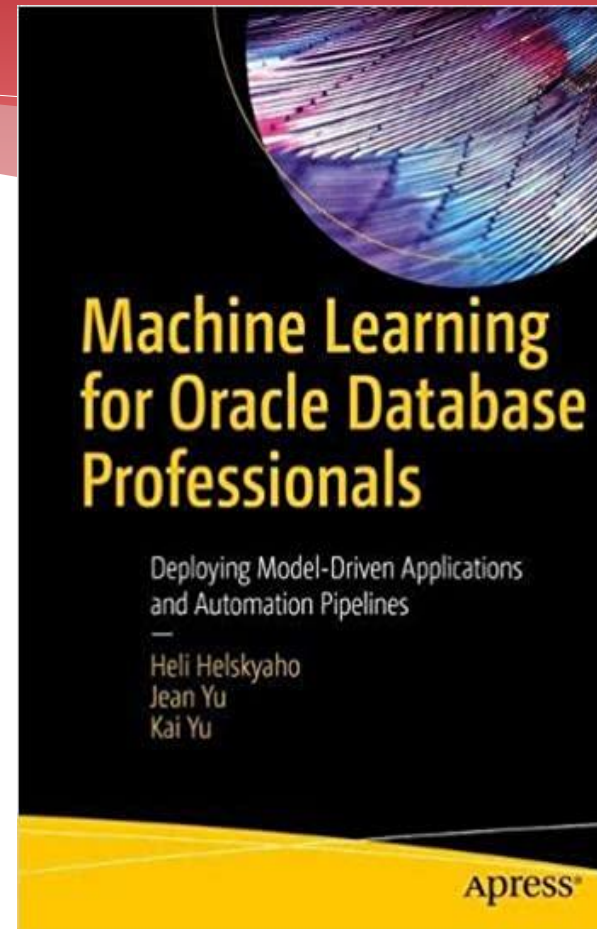
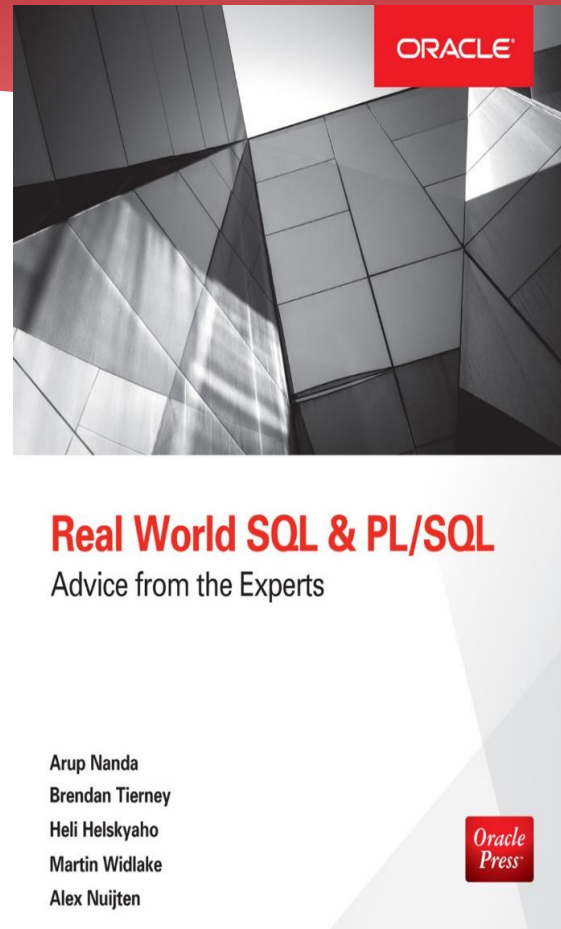
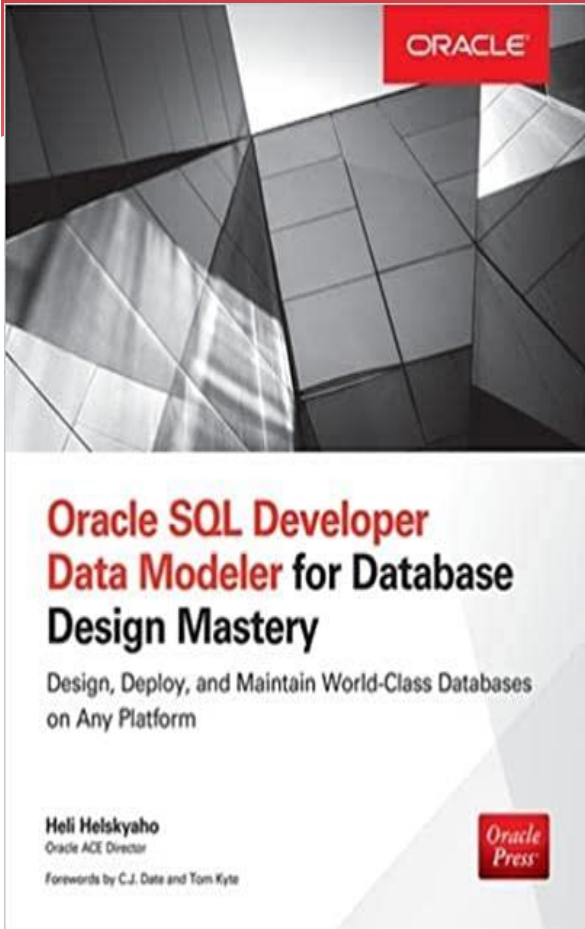
# Heli



- \* Graduated from University of Helsinki (Master of Science, computer science), currently a doctoral student at University of Helsinki
- \* Worked with Oracle products since 1993, worked for IT since 1990
- \* Data and Database!
- \* CEO for Miracle Finland Oy
- \* Oracle ACE Director
- \* Public speaker and an author
- \* Author of the book Oracle SQL Developer Data Modeler for Database Design Mastery (Oracle Press, 2015), co-author for Real World SQL and PL/SQL: Advice from the Experts (Oracle Press, 2016), Machine Learning for Oracle Database Professionals: Deploying Model-Driven Applications and Automation Pipelines (Apress, 2021), and Extending Oracle Application Express with Oracle Cloud Features: A Guide to Enhancing APEX Web Applications with Cloud-Native and Machine Learning Technologies (Apress, 2022)



# Books



# Jari

- \* Creator of the blogging application
- \* Jari Laine works as a consultant for Miracle Finland Oy
- \* Jari has been working with Oracle Application express (APEX) since 2006
- \* He has developed, for example, Data Quality and Master Data Management (MDM) applications using APEX for a major telecom company
- \* He has a strong background of data warehousing and ETL/ELT
- \* Jari became an Oracle Certified APEX Developer in 2011 and has acquired several other Oracle certificates after that

# The problem

# Writer's block

- \* We love to share our knowledge but that requires a lot of writing
- \* And writing takes a lot of time....
- \* Blogs, LinkedIn posts, emails, articles, books,...
- \* How to get started?
- \* A blank canvas...
- \* Help the process with machine learning and/or AI!
- \* It is easy!

# Bloggning with ML and AI

- \* BTW the whole blog runs in the Oracle Cloud in an Autonomous Database and is built using APEX
- \* Demo

# Creating a blog post

\* Demo



# Comments

\* Demo

# Key takeaways of the solution

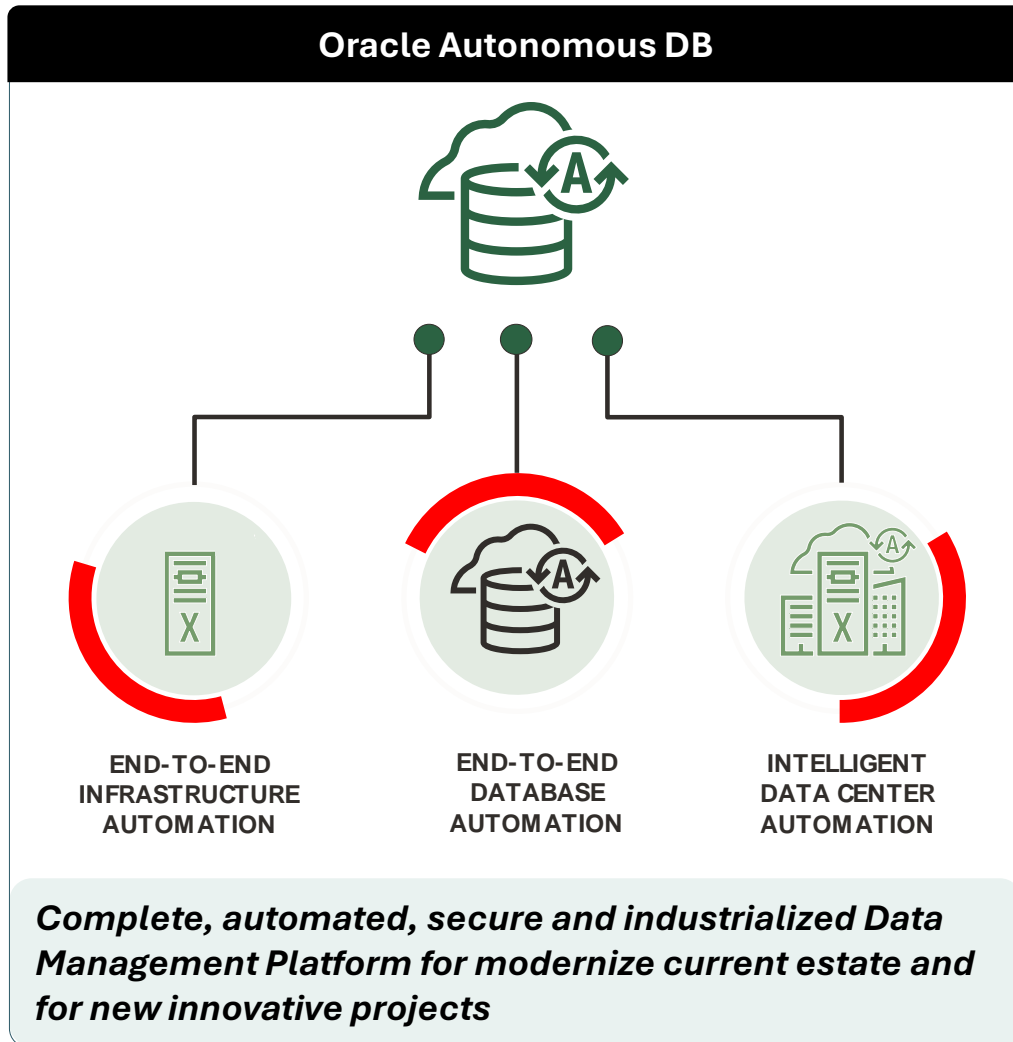
- \* A solution built in 2009 (on-premises) was easily migrated to OCI and Autonomous Database in 2019
- \* The selected solution worked well
  - \* Oracle Autonomous Database
  - \* APEX
  - \* AI Services
- \* The productivity increase was huge
  - \* Hours of desperate thinking -> minutes of work

# Technology chosen

- \* Oracle Autonomous Database (in the Oracle Cloud)
- \* APEX
- \* OCI AI Services




# Oracle Autonomous Database

# Oracle Autonomous DB Technology



**Key characteristics**

- Simplify data management
- Better data reliability
- Much easier to get better performance
- Data is safer and always available
- Less efforts and errors to serve Business
- Lower costs

Self-securing	Self-driving	Self-repairing
Protection from malicious internal and external attacks + Security updates and patches at runtime + Automatic Data Encryption	Auto-monitoring, predictable performance, self-tuning capabilities + Less labor, no human errors + Elastic Sizing	Always be online: automatically detects and applies corrective actions to ensure nonstop access to your data + SLA experience
		

# APEX

- \* A low-code application development platform
- \* Integrates “everything” together!
- \* In the Oracle Database
- \* Without any extra costs

# AI Services

- \* Pre-trained models
- \* For a specific use case
- \* Trained and maintained by Oracle
- \* Use with your own data
- \* Train (customize) with your own data

Q Search

Home

Compute

Storage

Networking

Oracle Database

Databases

**Analytics & AI**

Developer Services

## Analytics & AI

### Analytics

Analytics Cloud

Data Intelligence

### Data Lake

Big Data Service

Data Catalog

Data Integration

Data Flow

### Messaging

Streaming

Connector Hub

### Machine Learning

Data Science

Data Labeling

### AI Services

Generative AI

Language

Speech

Vision

Document Understanding

Digital Assistant

### Media Services

Media Flow

Media Flow Jobs



# Language



ORACLE Cloud

Cloud Classic >

Search resources, services, documentation, and Marketplace

Search

Home

Compute

Storage

Networking

Oracle Database

Databases

**Analytics & AI**

Developer Services

## Analytics & AI

### Analytics

Analytics Cloud

Data Intelligence

### Data Lake

Big Data Service

Data Catalog

Data Integration

Data Flow

### Messaging

Streaming

Connector Hub

### Machine Learning

Data Science

Data Labeling

### AI Services

Generative AI

**Language**

Speech

Vision

Document Understanding

Digital Assistant

### Media Services

Media Flow

Media Flow Jobs

# Language

\* Demo

# Speech



ORACLE Cloud

Cloud Classic >

Search resources, services, documentation, and Marketplace

Search

Home

Compute

Storage

Networking

Oracle Database

Databases

**Analytics & AI**

Developer Services

## Analytics & AI

### Analytics

Analytics Cloud

Data Intelligence

### Data Lake

Big Data Service

Data Catalog

Data Integration

Data Flow

### Messaging

Streaming

Connector Hub

### Machine Learning

Data Science

Data Labeling

### AI Services

Generative AI

Language

**Speech**

Vision

Document Understanding

Digital Assistant

### Media Services

Media Flow

Media Flow Jobs

## Speech

### Overview

Transcription jobs

Live transcribe

Customizations

## Overview

### Get Started

Speech can be used to transcribe customer service calls, automate subtitling, and generate metadata for media assets to create a fully searchable archive.



Speech Transcription

Get Started

## Speech

### Speech Transcription

You can transcribe one or more media files to create a text file. Try it out by clicking Create job.

Create job

## Documentation

[Speech features](#)

[All documentation](#)

[Quota and limits](#)

# Vision



ORACLE Cloud

Cloud Classic >

Search resources, services, documentation, and Marketplace

Search

Home

Compute

Storage

Networking

Oracle Database

Databases

**Analytics & AI**

Developer Services

## Analytics & AI

### Analytics

Analytics Cloud

Data Intelligence

### Data Lake

Big Data Service

Data Catalog

Data Integration

Data Flow

### Messaging

Streaming

Connector Hub

### Machine Learning

Data Science

Data Labeling

### AI Services

Generative AI

Language

Speech

**Vision**

Document Understanding

Digital Assistant

### Media Services

Media Flow

Media Flow Jobs

# Vision

\* Demo

# Vision

Vision

## Overview

[Image classification](#)

[Object detection](#)

[Face detection](#)

[Text detection](#)

Custom models

Projects

## Vision

### Extract insights from visual data

Use Oracle Cloud Infrastructure Vision for image recognition tasks like classifying images, detecting objects, detecting faces, and extracting text. Either leverage pretrained models or easily create custom models for industry and customer specific scenarios. Vision service is a fully managed, multi-tenant, native cloud service that helps you with all your common computer vision tasks.




[Watch service tour](#)

## Get started

 [Video tours](#)

[Overview](#)

 [Essentials](#)

[Vision overview](#)

[Policies for Vision](#)

## Resources

[Self-paced workshop](#)

[Documentation](#)

[Frequently asked questions](#)

[Oracle Cloud Customer Connect](#)

# Data Labeling



ORACLE Cloud

Cloud Classic >

Search resources, services, documentation, and Marketplace

Search

Home

Compute

Storage

Networking

Oracle Database

Databases

**Analytics & AI**

Developer Services

## Analytics & AI

### Analytics

Analytics Cloud

Data Intelligence

### Data Lake

Big Data Service

Data Catalog

Data Integration

Data Flow

### Messaging

Streaming

Connector Hub

### Machine Learning

Data Science

**Data Labeling**

### AI Services

Generative AI

Language

Speech

Vision

Document Understanding

Digital Assistant

### Media Services

Media Flow

Media Flow Jobs



# Labeled data

- \* Needed for Supervised learning
- \* Labeling is identifying properties (labels) for images/text data and annotating (labeling) them with those properties
- \* Single/multiple labels
- \* The data labeled can be used with AI Service Custom models

# OCI Data Labeling Service

- \* Images
  - \* Classification, object detection,...
- \* Text (evaluations, feedback,...)
  - \* Classification, highlighting words or span of words within a text (can be used to train a custom NLP model)
- \* Documents (PO, Invoice, Receipt,...)
  - \* Classification

Shortcuts Clear annotations Skip Save Save & next Cancel



Labels (4) + Label

Search label

- mouth (0)
- nose (0)
- eyes (0)
- coffeemug (1)

# Generative AI



ORACLE Cloud

Cloud Classic >

Search resources, services, documentation, and Marketplace

Search

Home

Compute

Storage

Networking

Oracle Database

Databases

**Analytics & AI**

Developer Services

## Analytics & AI

### Analytics

Analytics Cloud

Data Intelligence

### Data Lake

Big Data Service

Data Catalog

Data Integration

Data Flow

### Messaging

Streaming

Connector Hub

### Machine Learning

Data Science

Data Labeling

### AI Services

**Generative AI**

Language

Speech

Vision

Document Understanding

Digital Assistant

### Media Services

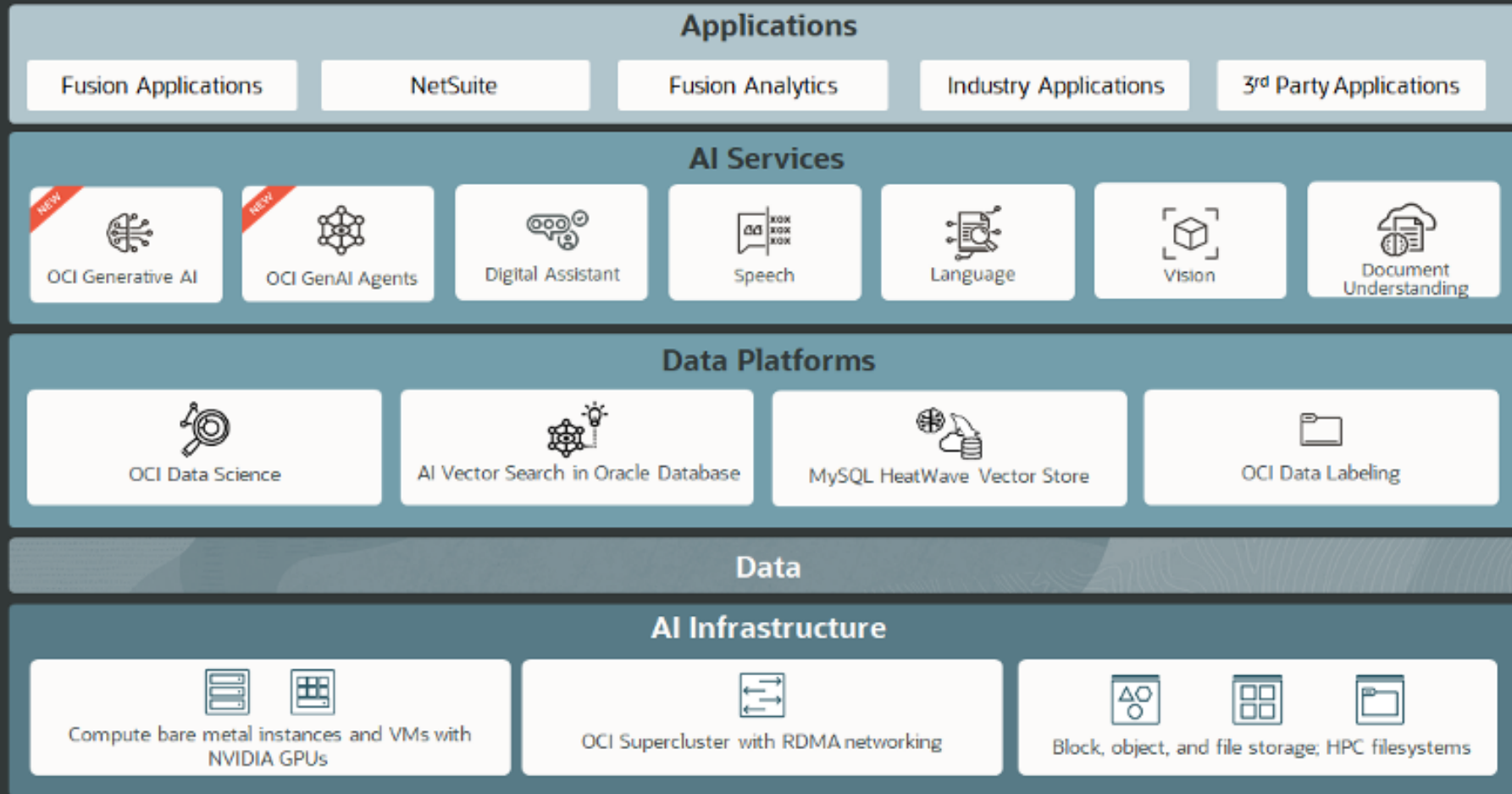
Media Flow

Media Flow Jobs

# Generative AI

\* Demo

# AI across the Oracle Cloud ecosystem



# Posting to LinkedIn with ML and AI

\* Demo

# Conclusions

- \* Automation helps a lot!
- \* Machine Learning and AI are easy with APEX
- \* Rapid application development with APEX: something to show very fast



# THANK YOU!

QUESTIONS?

[Heli.helskyaho@miracelooy.fi](mailto:Heli.helskyaho@miracelooy.fi)

[Jari.laine@miracleoy.fi](mailto:Jari.laine@miracleoy.fi)