Datenanalyse mit Oracle R Enterprise (ORE) for Beginners

Dr. Nadine Schöne
Systemberaterin

DOAG2015
Steckbrief

**OD Presales bei Oracle in Potsdam seit 2,5 Jahren**
Middleware, insbesondere:
- Mobile
- Cloud
- Java

Datenbank: Oracle R Enterprise (Datenanalysen)

**Hintergrund**
Naturwissenschaftlerin (Biologie, Mathematik, Bioinformatik)

@schoenenadine
Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle’s products remains at the sole discretion of Oracle.
Was ist ORE?
Datenbankoption: Advanced Analytics

- Oracle Data Miner
- Oracle R Enterprise
„Collaborative Execution“-Modell

1. User R Engine (Desktop)

R Engine

Oracle R Enterprise Packages

andere R-Packages

2. Datenbank Compute Engine

Oracle DB

User-Tabellen

SQL

Ergebnisse

R

Ergebnisse

3. R Engine(s) verwaltet durch Oracle DB

R Engine

andere R-Packages

Oracle R Enterprise Packages

Post-Processing der Ergebnisse

Ausführung in Collaboration mit der Oracle DB

Analysen, die in der Oracle DB nicht verfügbar sind
Weitere Informationen
Sensordaten-Analyse I

200.000 Haushalte

1 Messung/Stunde

5.256 Mrd. Messwerte
(2.628 Messwerte/Kunde)

3 Jahre
Sensordaten-Analyse II

200.000 Haushalte ➔ 200.000 Modelle

10 s/Modell

23 Tage + 4 Stunden

Oracle R Enterprise

4,3 Stunden
“R is a powerful and interesting tool for data analysis! ORE brings R into a scalable DB engine (solving problems of data management, analysis and scalability). We actually can obtain information and added value from not so actively used data.”

— Stefano Alberto Russo, Researcher at CERN Openlab
Oracle R Enterprise
Performance, Scalability, and Ease of Production Deployment

Oracle R Advanced Analytics for Hadoop
Big Data Scalability with the Power of R

Für R Community frei verfügbar!

Oracle R Distribution
An Oracle-Supported Redistribution of Open Source R
ROracle
R to Oracle Database Connectivity

Beta Version noch in 2015: FastR => Beta Tester gesucht!
https://www.r-consortium.org/
DB EE Option: Advanced Analytics

Simplify Big Data Preparation.

Built natively in Hadoop and Spark for scale, Oracle Big Data Preparation Cloud Service provides a highly intuitive and interactive way for analysts to prepare unstructured, semi-structured and structured data for downstream processing.

Fast.
Get started in minutes! Data preparation time and costs are reduced to a fraction of traditional methods.

Simple.
Designed for use by business users.

Built for Scale.
Engine built on a massively scalable foundation for iterative machine learning in a clustered compute environment.

Integrated.
Pre-integrated with various cloud storage services.
Kontakt

Dr. Nadine Schöne | Systemberaterin
Email: nadine.schoene@oracle.com
Tel: +49 331 200 7190

ORACLE Deutschland B.V. & Co. KG
Schiffbauergasse 14
14467 Potsdam