

## Obsah

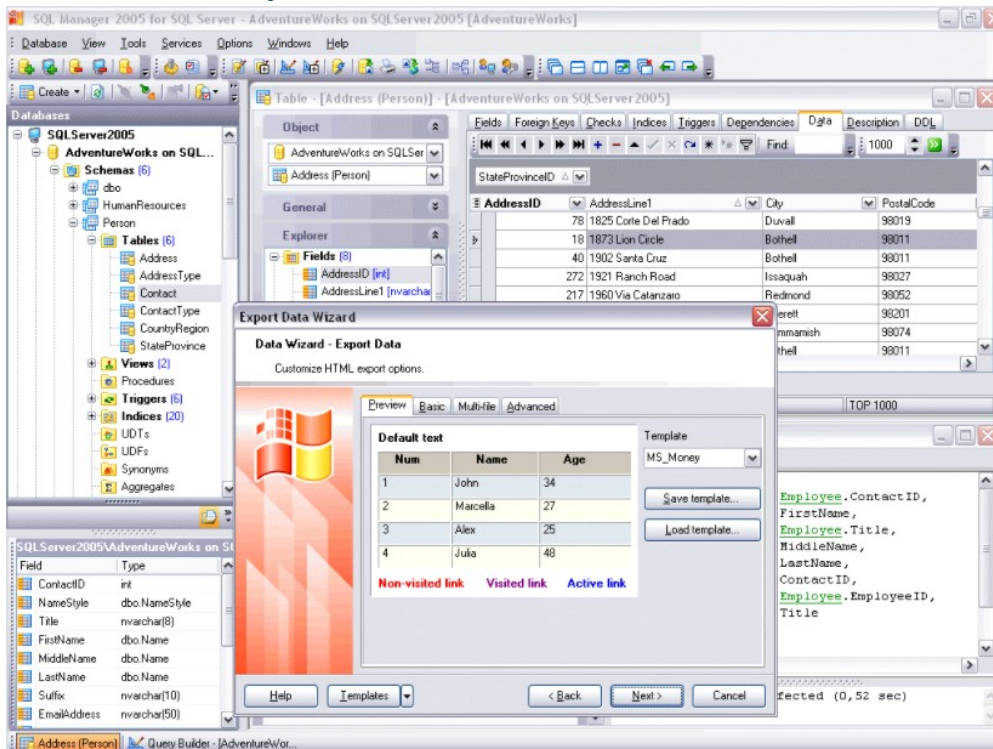
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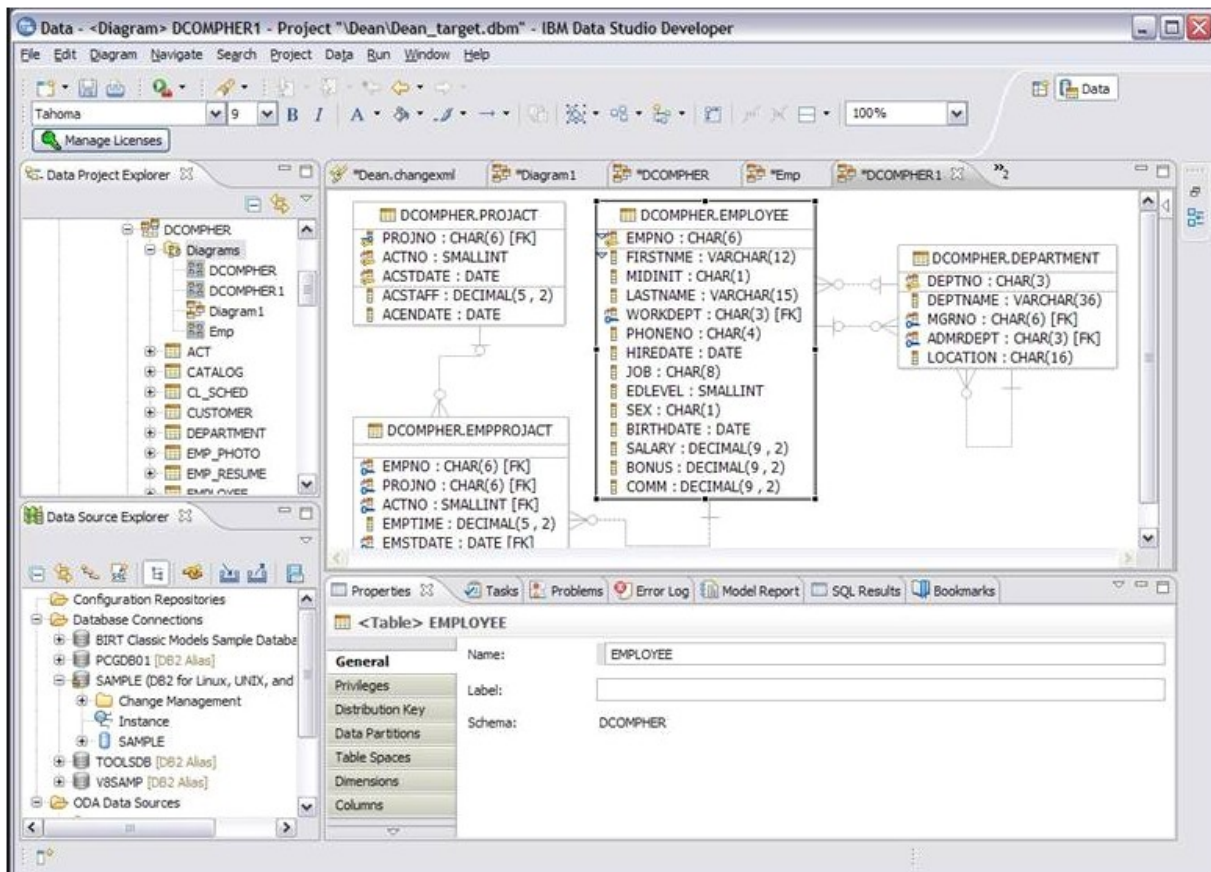
# 1 Zpracování dat – další programy

## 1.1 Databázové

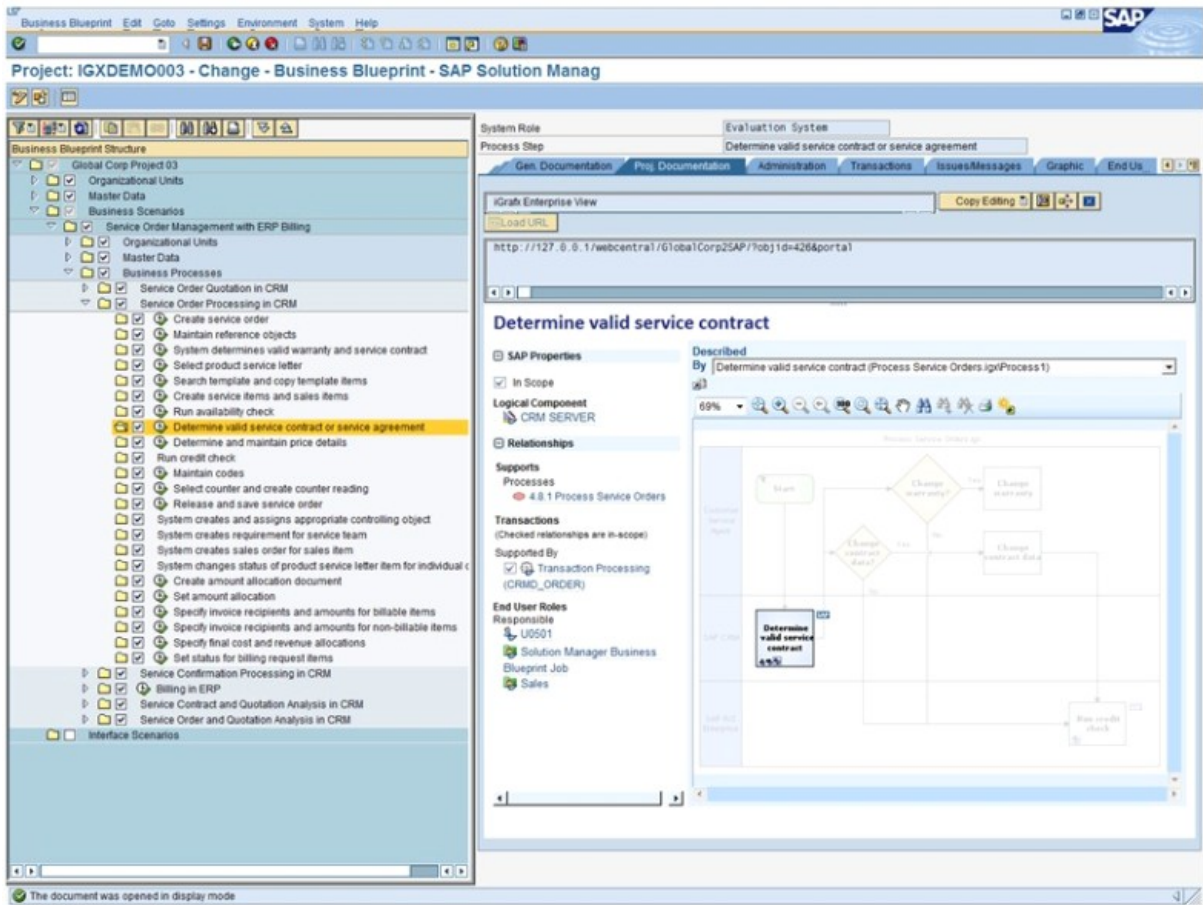
### 1.1.1 Microsoft SQL



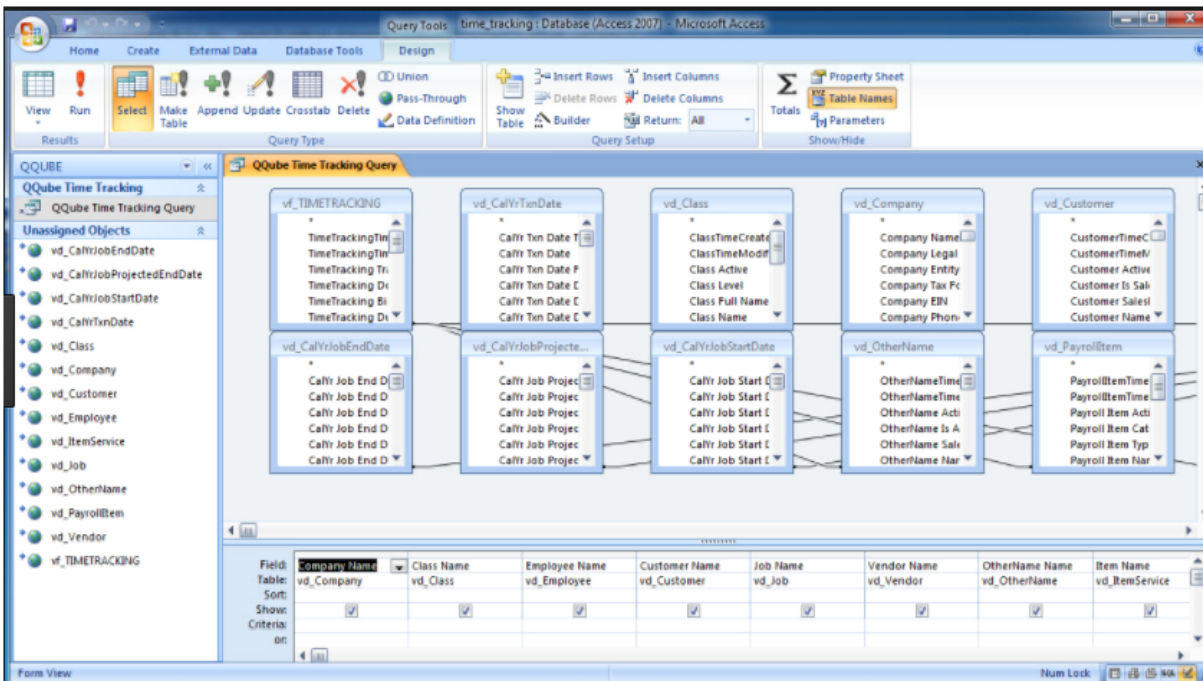
### 1.1.2 IBM



### 1.1.3 SAP



### 1.1.4 Access



## 1.1.5 ORACLE

The screenshot shows the dbForge Studio for Oracle interface. The main window displays a comparison of two databases: HUMAN\_RESOURCE@ORCL1120 and HR@ORCL1120. A table comparison grid is visible, showing the number of records in each table that are only in the source, different between source and target, or only in the target. The 'EMPLOYEES' table shows 107 different records. Below the grid, a data view for 'Different Records' is shown, with columns for EMPLOYEE\_ID, HIRE\_DATE, and SALARY. A 'Visible Columns' dialog box is open, allowing the user to select which columns to display in the data view. The dialog box lists various columns from the HUMAN\_RESOURCE database, including COMMISSION\_PCT, DEPARTMENT\_ID, EMAIL, FIRST\_NAME, HIRE\_DATE, JOB\_ID, LAST\_NAME, MANAGER\_ID, PHONE\_NUMBER, and SALARY. The 'HIRE\_DATE | HIRE\_DATE' and 'SALARY | SALARY' options are checked.

Object	Only in Source	Different Records	Only in Target
EMPLOYEES	0	107	0
JOBS	0	4	0
LOCATIONS	0	0	0
REGIONS	0	0	0
COUNTRIES	1	0	1
JOB_HISTORY	12	0	13

EMPLOYEE_ID	HIRE_DATE	HIRE_DATE	SALARY	SALARY
201	2/17/1996	2/17/2004		
202	8/17/1997	8/17/2005	6000	6000
203	6/7/1994	6/7/2002	6500	6500
204	6/7/1994	6/7/2002	10000	10000
205	6/7/1994	6/7/2002	12000	12008
206	6/7/1994	6/7/2002	8300	8300

## 1.1.6 SQLite



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SQLite is a [self-contained](#), [high-reliability](#), [embedded](#), [full-featured](#), [public-domain](#), SQL database engine. SQLite is the [most used](#) database engine in the world. [More Info](#)

**Latest Release:** [Version 3.18.0](#) (2017-03-28). [Download](#) [Prior Releases](#)

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## 1.1.7 postgresQL

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**9<sup>th</sup> February 2017**

**PostgreSQL 9.6.2, 9.5.6, 9.4.11, 9.3.16 and 9.2.20 Released!**

The PostgreSQL Global Development Group is pleased to announce the availability of PostgreSQL 9.6.2, 9.5.6, 9.4.11, 9.3.16 and 9.2.20.

These new releases contain bug fixes over previous releases. All users should plan to upgrade their systems as soon as possible.

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... just like the FeedLounge guys I prefer PostgreSQL, and it's the database we'll be using for all future applications here at Joyent.

**Michael Koziarski, Joyent**

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## 1.1.8 FileMaker

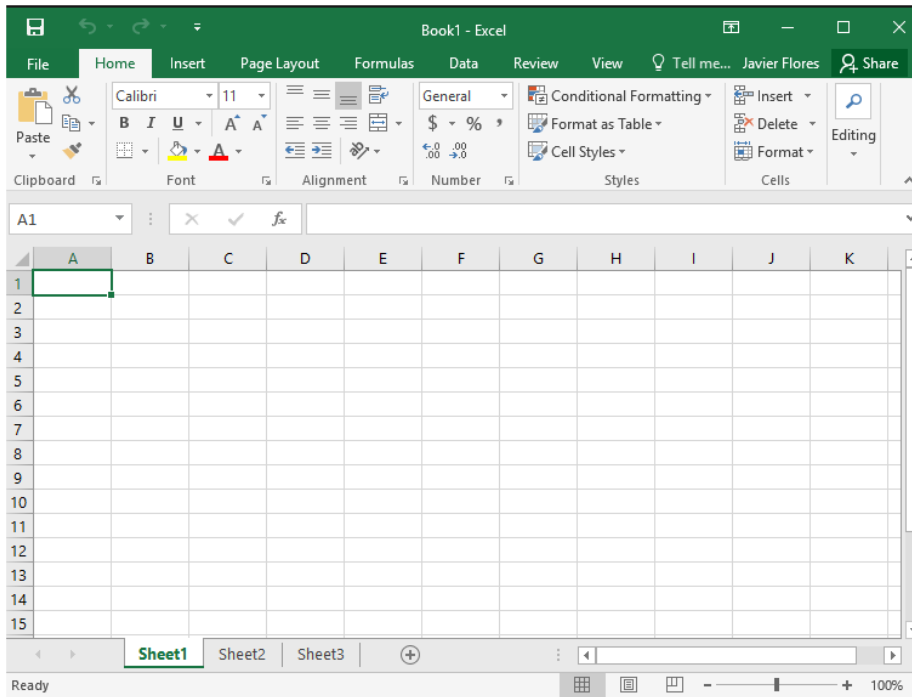
## 1.1.9 Informix

## 1.1.10 Teradata

## 1.1.11 ADABAS

## 1.2 Microsoft

### 1.2.1 Excel



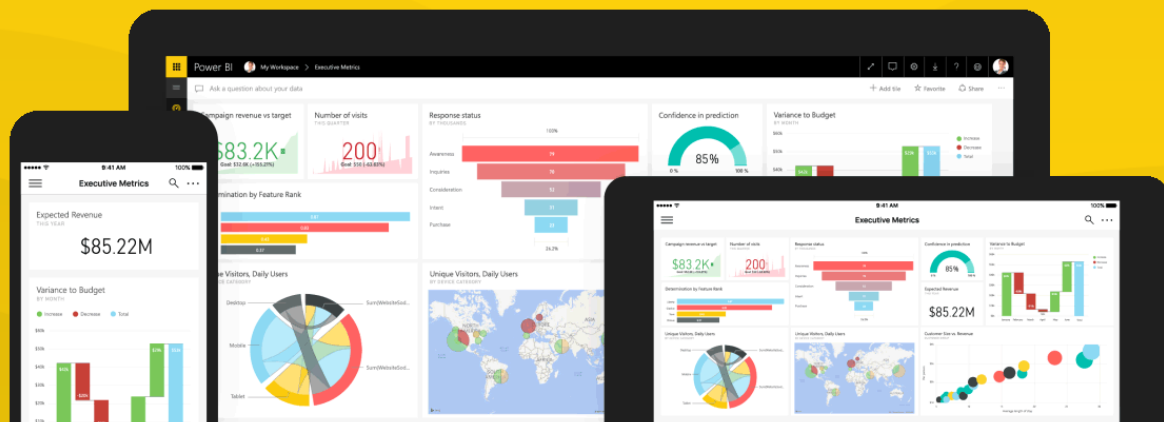
### 1.2.2 PowerBI

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## 1.3 Google

### 1.3.1 Google data studio

Google Datové studio beta | Domovská stránka

### 1.3.2 AdWords

Ad group	Status	Default Max. CPC	Clicks	Imp.	CTR	Avg. CPC	Cost	Avg. Pos.	Conv. (many-per-click)
High Volume Exact Keywords	Eligible	Eligible	1,589	50,281	3.16%	\$3.89	\$6,181.21	1.5	423
High Volume Broad Keywords	Eligible	Eligible	1,336	28,919	4.62%	\$5.03	\$6,720.08	1.2	589
Low Volume Broad Keywords	Eligible	Eligible	42	8,389	0.50%	\$2.05	\$86.10	3.3	12
Low Volume Exact Keywords	Eligible	Eligible	30	2,312	1.28%	\$1.53	\$45.90	3.1	8
<b>Total - Search</b>			<b>2,997</b>	<b>89,901</b>	<b>1.25%</b>	<b>\$3.52</b>	<b>\$13,033.29</b>	<b>3.1</b>	<b>1,032</b>
<b>Total - Display Network</b>			<b>0</b>	<b>0</b>	<b>0.00%</b>	<b>\$0.00</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total - all ad groups</b>			<b>2,997</b>	<b>89,901</b>	<b>1.25%</b>	<b>\$3.52</b>	<b>\$13,033.29</b>	<b>3.1</b>	<b>1,032</b>



### 1.3.3 AdSense

The screenshot shows the AdSense Performance reports dashboard. At the top, there are navigation tabs: Home, My ads, Allow & block ads, Performance reports, and Help. The main content area is divided into several sections:

- Overview:** A sidebar menu with links for Overview, Messages, Payments, Account settings, and Resources.
- Estimated earnings:** Shows \$0.00 for Today so far, Yesterday, This month so far, and Last month. It also displays 'Finalized earnings' of \$0.00 (Unpaid earnings prior to Jul 1, 2012).
- Last 7 days:** A table with columns: Product, Page views, Clicks, Page CTR, CPC, Page RPM, and Estimated earnings. The table currently shows 'No data available'.
- Top channels:** A section with a dropdown menu set to 'Content' and a line chart showing 'Earnings and change' for the last 7 days, also displaying 'No data available'.
- Quick reports:** A list of links for 'Overview, this month', 'Overview, last month', 'Custom channels, yesterday', 'Custom channels, this month', and 'Custom channels, last month'.
- Saved reports:** A section indicating 'No Saved Reports Available'.

At the bottom, there is a footer with 'View in: Classic | Low bandwidth' and '© 2012 Google - Terms & Conditions'.

### 1.3.4 Google analytics

The screenshot shows the Google Analytics dashboard for January 1, 2007. The interface includes a navigation bar with 'Analytics Settings' and 'View Reports: Click to select Website Profile'. The main content area is divided into several sections:

- Dashboard:** A line chart showing 'Visits' for the period Jan 1, 2007 - Jan 31, 2007. The chart compares data from Dec 1, 2006 - Dec 31, 2006 (green line) and Jan 1, 2007 - Jan 31, 2007 (blue line). The y-axis ranges from 0 to 800.
- Site Usage:** A section with six key metrics:
  - 16,107 Visits:** Dec 1, 2006 - Dec 31, 2006: 13,209 (21.94%)
  - 62,142 Pageviews:** Dec 1, 2006 - Dec 31, 2006: 53,855 (15.39%)
  - 3,86 Pages/Visit:** Dec 1, 2006 - Dec 31, 2006: 4.08 (-5.37%)
  - 00:03:22 Avg. Time on Site:** Dec 1, 2006 - Dec 31, 2006: 00:03:31 (-4.27%)
  - 36,81% Bounce Rate:** Dec 1, 2006 - Dec 31, 2006: 35.98% (2.30%)
  - 50,44% % New Visits:** Dec 1, 2006 - Dec 31, 2006: 49.73% (1.42%)
- Visitors Overview:** A line chart showing visitor trends over time.
- Map Overlay world:** A world map showing visitor locations.

On the left side, there is a sidebar with navigation links for Dashboard, Visitors, Traffic Sources, Content, Goals, and Ecommerce. Below these are 'Settings' and 'About this Report' links.

### 1.3.5 Gtabulky

02 - Speciální funkce - Filtr = ☆

Soubor Upravit Zobrazit Vložit Formát Data Nástroje Doplnky Nápověda Poslední úp... Komentáře Sdílet

Kč % .0\_ .00 123 Arial 14 B I A Další

**fx** Funkce pro filtrování a řazení v Google tabulkách

	A	B	C	D	E	F
1	Funkce pro filtrování a řazení v Google tabulkách					
2						
3						
4		<b>Name EN</b>	<b>Jméno CZ</b>	<b>Syntaxe</b>	<b>Popis</b>	
5		FILTER	FILTER	FILTER(range, condition1, [condition2])	filtr na základě podmínek	
6		SORT	SORT	SORT(range, sort_column, is_ascending, [sort_column2], [is_ascending2])	řazení	
7		UNIQUE	UNIQUE	UNIQUE(range)	unikátní hodnoty z oblasti dat	
8						
9		UNIQUE	Data	=UNIQUE(C15:C20)		
10			2		2	
11			1		1	
12			7		7	
13			1			
14			7	UNIQUE((1; 2; 3; 1; 2; 3))		
15			7		1	
16					2	

### 1.3.6 Fusion tables

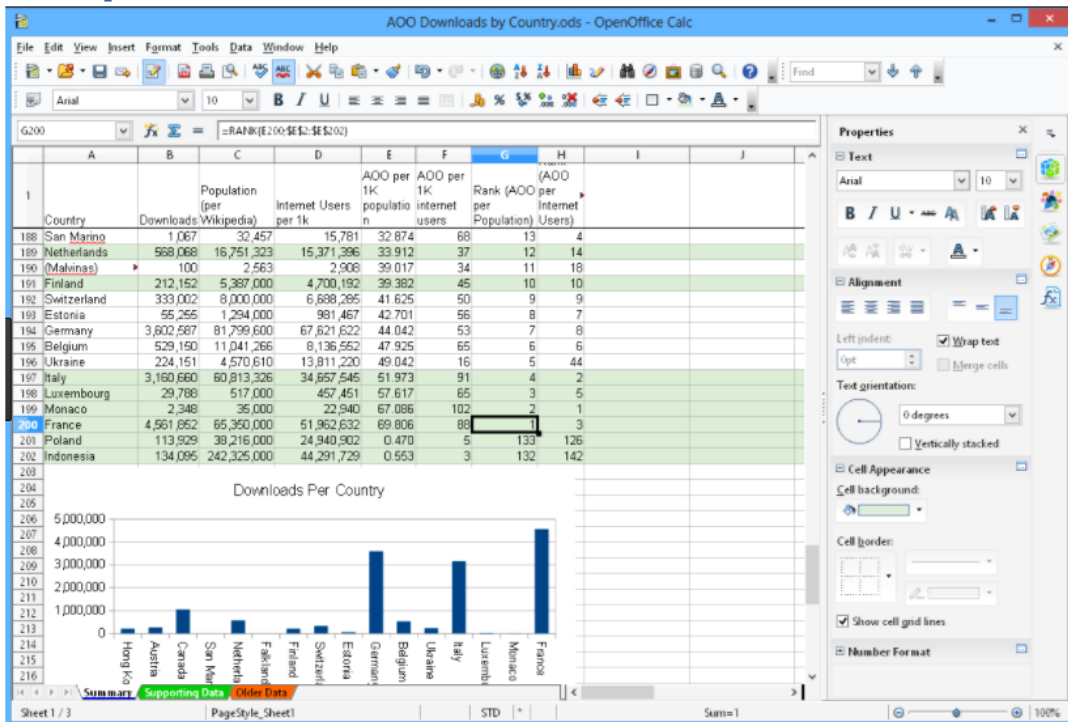
Google fusion tables United States Ethanol Facilities California Biomass Collaborative Discussions (1) Saved links

File View Edit Visualize Merge

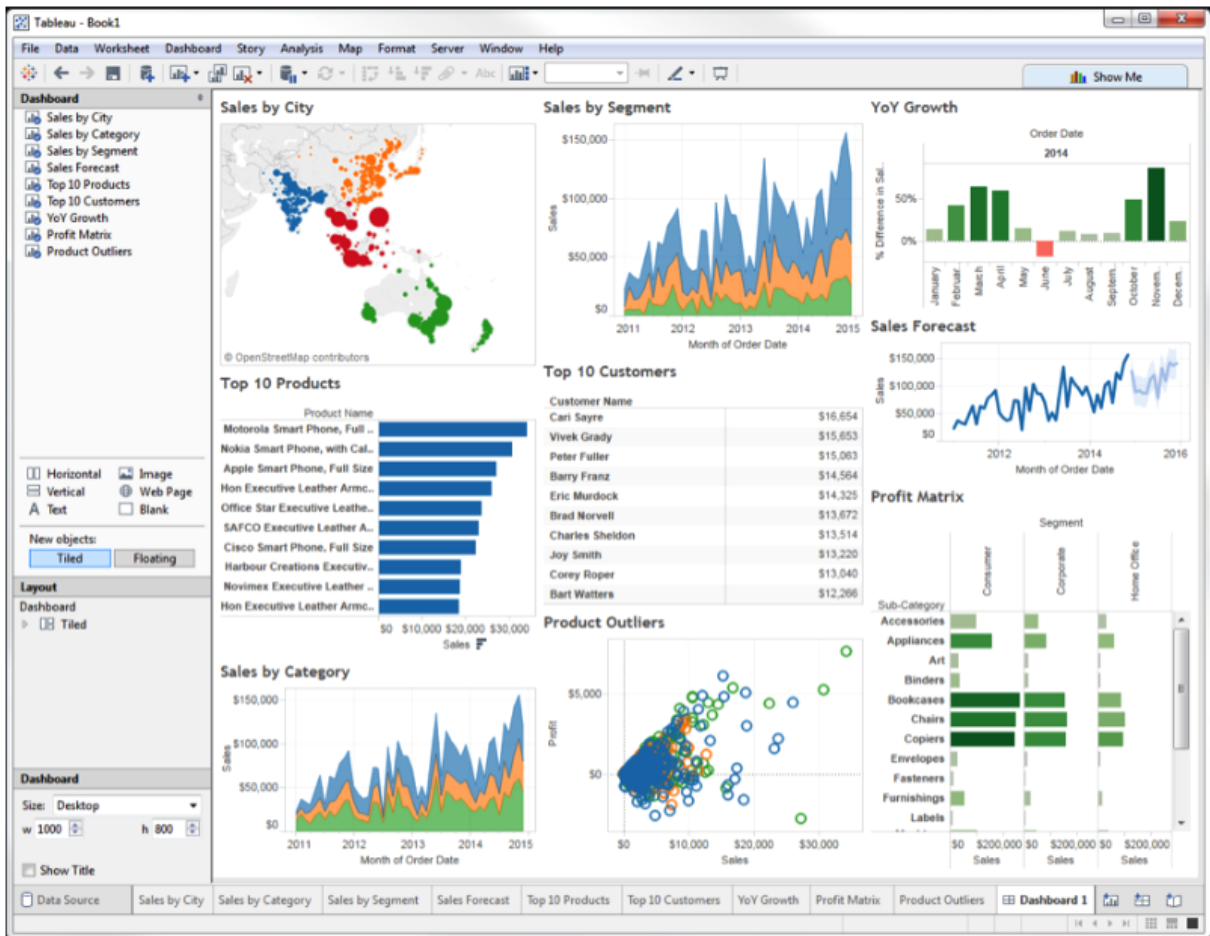
Current view: All - Show options

Longitude	Latitude	Company	Address
-103.334403992	34.1861915588	Abengoa Bioenergy Corp.	
-87.72813	37.905285	Abengoa Bioenergy Corp.	10610 Darrell School Road
-89.982501	38.685681	Abengoa Bioenergy Corp.	395 Bissell Street
-97.531478	37.786564	Abengoa Bioenergy Corp.	523 East Union Avenue
-97.539802	40.872305	Abengoa Bioenergy Corp.	1414 Road O
-98.874751	41.017139	Abengoa Bioenergy Corp.	35955 Navaho Road
-92.949793	43.499801	Absolute Energy - LLC*	1372 State Line Road
-90.960375	44.958779	ACE Ethanol - LLC	815 West Maple Street
-89.801433	42.357788	Adkins Energy - LLC*	4350 W. Galena Road
-97.595856	40.611234	Advanced Bioenergy - LLC	1214 Road G
-98.938396	38.905956	Ag Energy Resources - Inc.	10163 Sugar Creek Road

## 1.4 OpenOffice



## 1.5 Tabelau



## 1.6 Rko

The screenshot shows the RStudio interface. The top-left pane contains the following R code:

```
1 Sys.Date()
2 Sys.time()
3 class(Sys.Date())
4 class(Sys.time())
```

The top-right pane, titled 'Environment', shows the following values:

Variable	Type	Value
a	num [1:2]	10 10
Hodnota1	num [1:4]	2 3 4 5
Hodnota2	num [1:4]	2 3 4 5
Hodnota3	num [1:4]	1.1 1.2 1.3 1.4
Hodnota4	chr [1:4]	"A" "1.2" "1.3" "1.4"

The bottom-left pane shows the console output:

```
Platform: i386-w64-mingw32/i386 (32-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

[Workspace loaded from ~/.RData]

> |
```

The bottom-right pane shows the R documentation for the `format` function, titled 'Encode in a Common Format'.

## 1.7 Open refine

The image shows the OpenRefine logo, which consists of the word 'Refine' in a large, blue, sans-serif font. Above the 'e' in 'Refine' is the word 'OPEN' in a smaller, blue, sans-serif font. To the right of the logo is a blue diamond shape with the tagline 'A free, open source, powerful tool for working with messy data' written in a smaller, blue, sans-serif font.

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OpenRefine News:  
Spring 2016

OpenRefine News:  
December 2015

OpenRefine News:  
November 2015

OpenRefine News:  
October 2015

OpenRefine News:  
September 2015

OpenRefine News:  
August 2015

OpenRefine News: July

### Welcome!

OpenRefine (formerly Google Refine) is a powerful tool for working with messy data: cleaning it; transforming it from one format into another; and extending it with web services and external data.

Please note that since October 2nd, 2012, Google is not actively supporting this project, which has now been rebranded to OpenRefine. Project development, documentation and promotion is now fully supported by volunteers. Find out more about the history of OpenRefine and how you can help the community.

### Using OpenRefine - The Book



**Using OpenRefine**, by Ruben Verborgh and Max De Wilde, offers a great introduction to OpenRefine. Organized by recipes with hands on examples, the book covers the following topics:

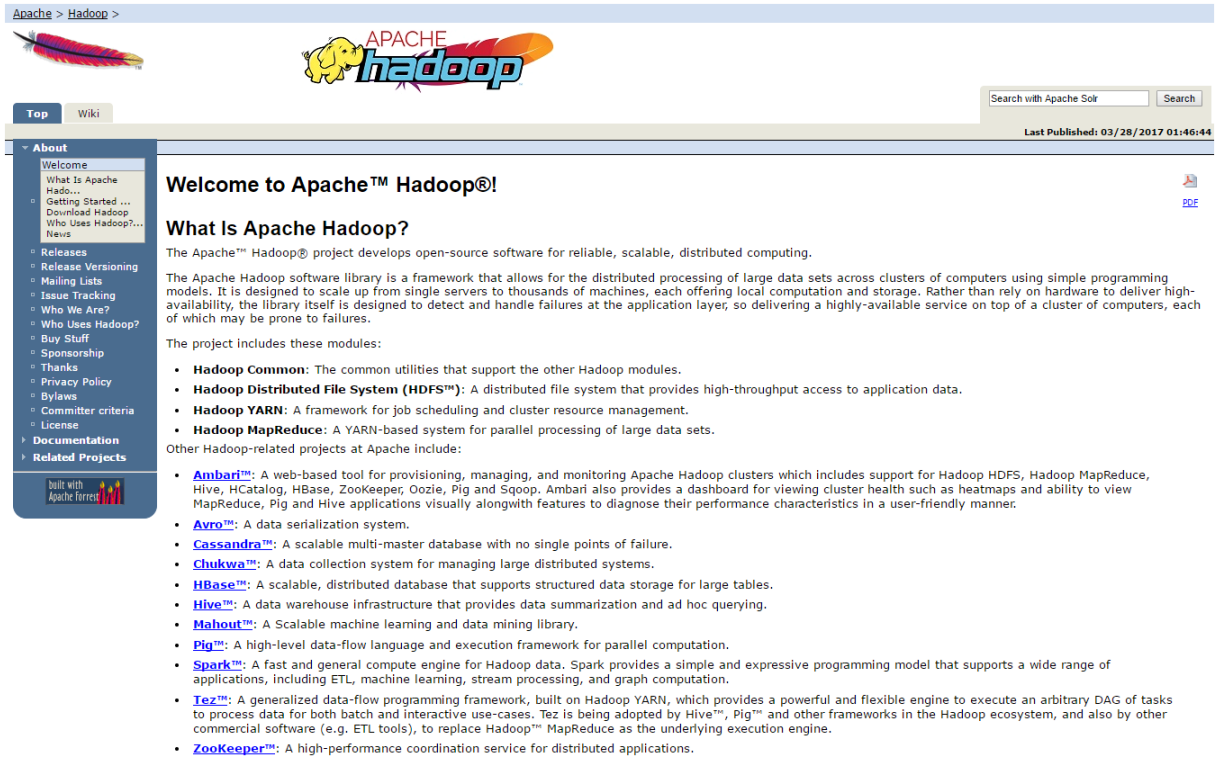
1. Import data in various formats
2. Explore datasets in a matter of seconds
3. Apply basic and advanced cell transformations
4. Deal with cells that contain multiple values
5. Create instantaneous links between datasets
6. Filter and partition your data easily with regular expressions
7. Use named-entity extraction on full-text fields to automatically identify topics
8. Perform advanced data operations with the General Refine Expression Language

### Introduction to OpenRefine

#### 1. Explore Data

## 1.8 HADOP

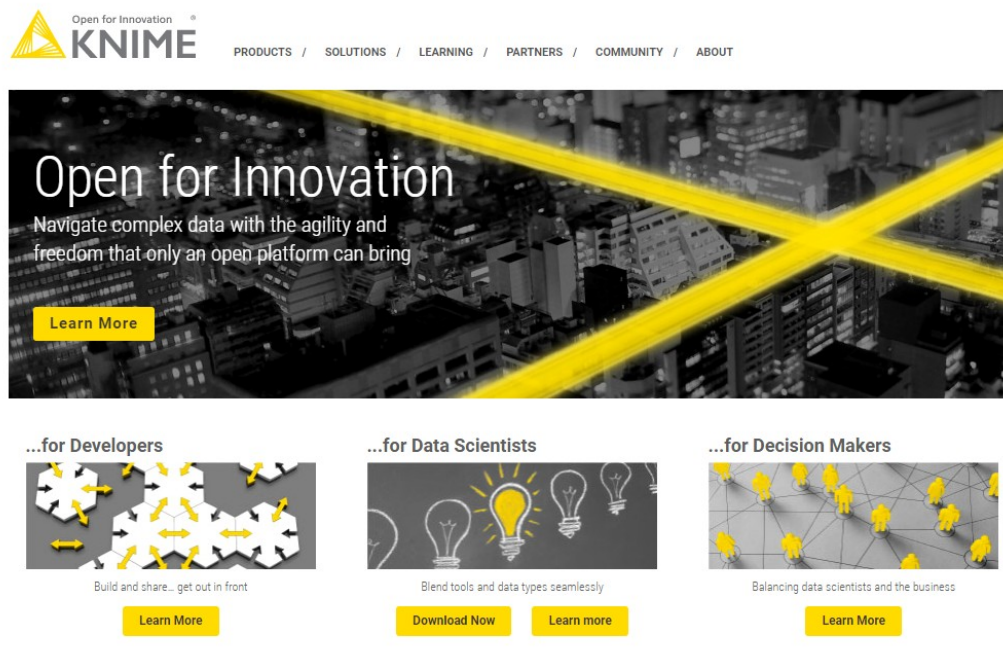
<http://hadoop.apache.org/>



The screenshot shows the Apache Hadoop website homepage. At the top, there is a navigation bar with "Apache > Hadoop >" and the Apache Hadoop logo. Below the logo is a search bar with the text "Search with Apache Solr" and a "Search" button. A "Last Published: 03/28/2017 01:46:44" timestamp is visible in the top right corner. The main content area features a "Welcome to Apache™ Hadoop@!" heading, followed by "What Is Apache Hadoop?" and a paragraph describing the project's goal: "The Apache™ Hadoop® project develops open-source software for reliable, scalable, distributed computing." Below this, a list of modules is provided: Hadoop Common, Hadoop Distributed File System (HDFS), Hadoop YARN, and Hadoop MapReduce. A section titled "Other Hadoop-related projects at Apache include:" lists various tools like Ambari, Avro, Cassandra, Chukwa, HBase, Hive, Mahout, Pig, Spark, Tez, and ZooKeeper, each with a brief description of its function.

## 1.9 KNIME

<http://www.knime.org/>



The screenshot shows the KNIME website homepage. At the top, there is a navigation bar with the KNIME logo and the tagline "Open for Innovation". Below the logo is a navigation menu with links for "PRODUCTS / SOLUTIONS / LEARNING / PARTNERS / COMMUNITY / ABOUT". The main content area features a large banner with the text "Open for Innovation" and "Navigate complex data with the agility and freedom that only an open platform can bring". Below the banner is a "Learn More" button. The page is divided into three columns, each representing a different user group: "...for Developers" (with a diagram of interconnected nodes), "...for Data Scientists" (with a diagram of lightbulbs), and "...for Decision Makers" (with a diagram of a network of nodes). Each column has a "Learn More" button.

## 1.10 rapidminer

<https://sourceforge.net/projects/rapidminer/>



Enterprise / RapidMiner

# RapidMiner

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## Overview

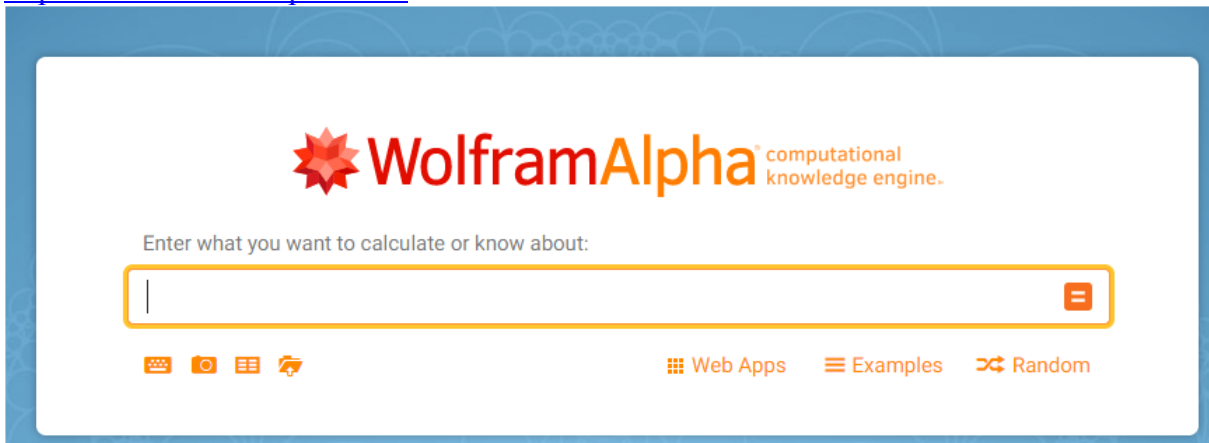
Want RapidMiner? Download it at <http://www.rapidminer.com>


RapidMiner is the No 1 open source platform for predictive analytics. RapidMiner empowers enterprises to easily mashup data, create predictive models and operationalize predictive analytics within any business process.

[RapidMiner Web Site »](#)


## 1.11 Wolframalpha

<http://www.wolframalpha.com/>



 **WolframAlpha** computational knowledge engine.

Enter what you want to calculate or know about:

 [Web Apps](#) [Examples](#) [Random](#)

## 1.12 Import.io

<https://www.import.io/>

## 1.13 Google Search Operators

<http://www.sourcinghacks.com/google-search-operators-and-more/>

## 1.14 NodeXL

<http://nodexl.codeplex.com/>



ELKI

DATAIKU DSS

Gephi

DataMelt

Data Applied

Dev Info

<http://www.predictiveanalyticstoday.com/top-data-analysis-software/>

<http://www.informationweek.com/big-data/big-data-analytics/16-top-big-data-analytics-platforms/d/d-id/1113609>