



Briefing Database Technology Streaming Odd 2017/2018

05 Oct 2017 & 11 Oct 2017

by Dewi Suryani, S.Kom., M.Eng. (D5878)



Outline

- Course list
 - Database applications
 - Research areas
 - Career prospects
- 



Course List

4th Semester

- Database Design
- Object Oriented Database
- Geographical Information System

5th Semester

- Database Administration
- Data Mining

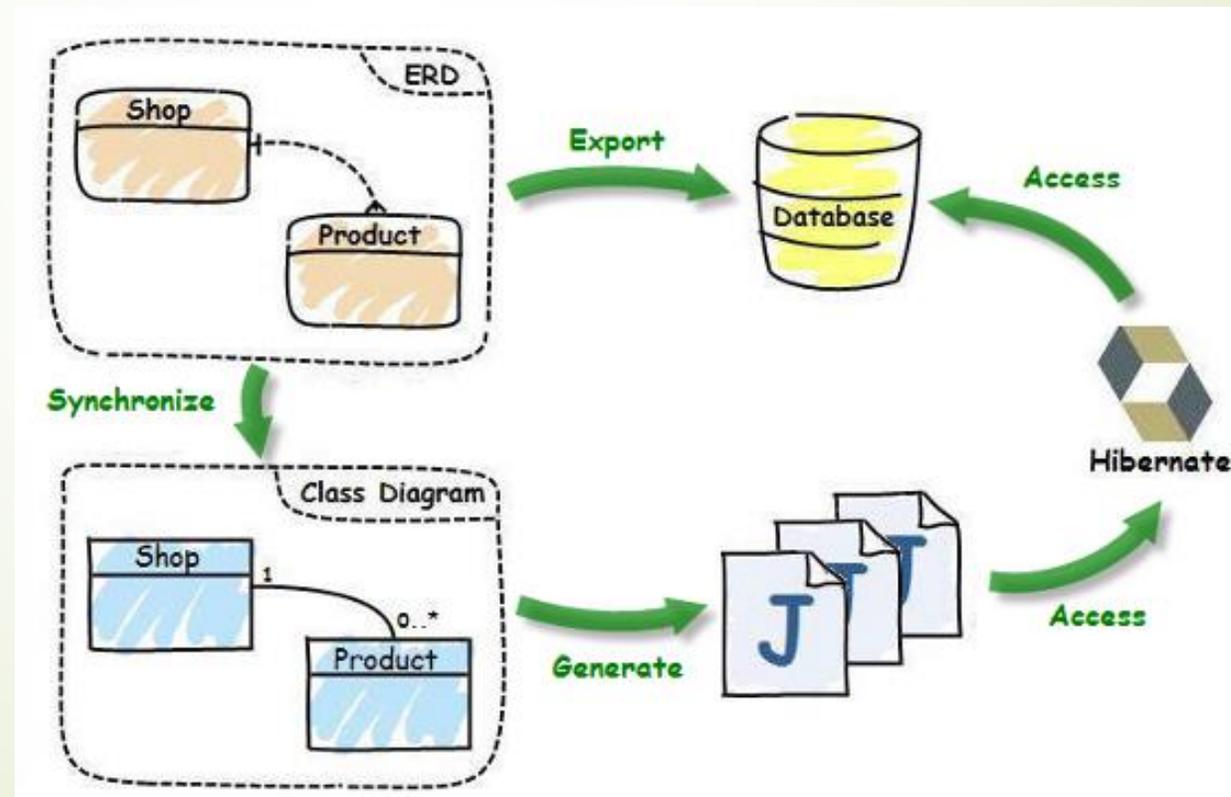
Database Design (2/1)

- How to design a database from some cases by implementing normalization
- Software:
 - ❑ Microsoft Office Word 2010
 - ❑ Microsoft Office Visio 2010
 - ❑ Microsoft SQL Server Enterprise 2016
 - ❑ Text Editor (Notepad / Notepad++ / Textpad / Sublime Text)



Object Oriented Database (2/2)

- Know how to implement databases in the object oriented programming
- Software: Microsoft Visual C# 2010 Express



Geographical Information System (2/1)

- Learn how to process and analyze spatial data using ArcGIS software
- Software:
 - ❑ ArcGIS Desktop 10.5
 - ❑ Browser (IE / Firefox / Chrome)

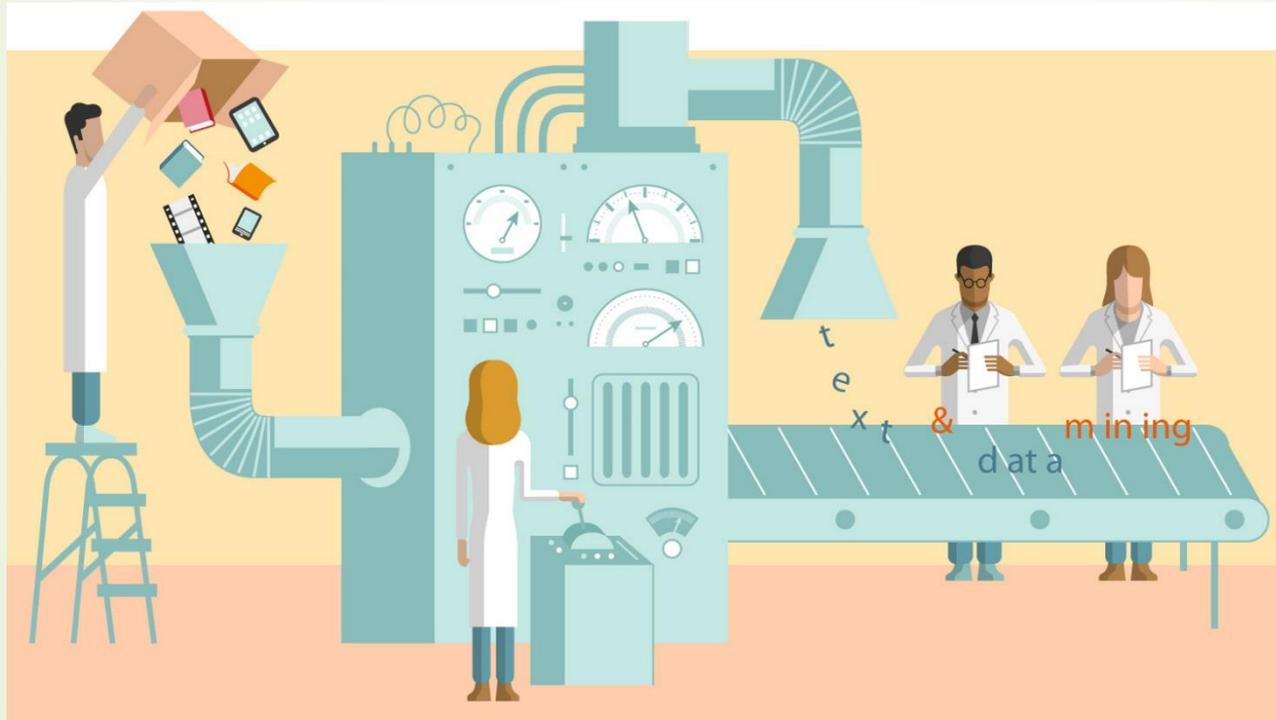


Database Administration (2/2)



- ▶ Secure any data in your database and manage its transactions, also design its business intelligence
- ▶ Software:
 - ❑ Microsoft SQL Server Enterprise 2016
 - ❑ Microsoft Word 2010
 - ❑ Microsoft Office Visio 2010

Data Mining (2/2)

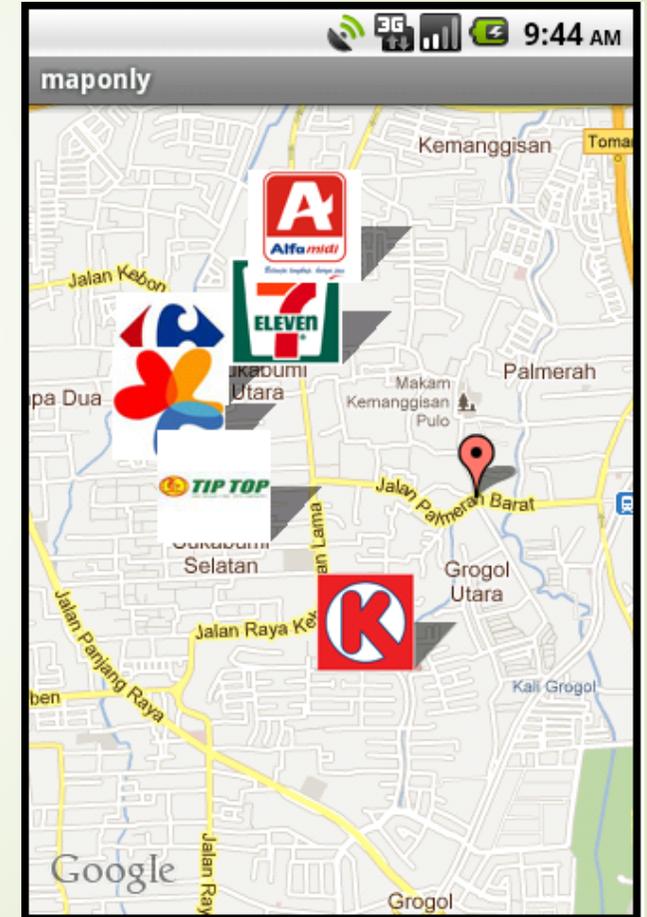
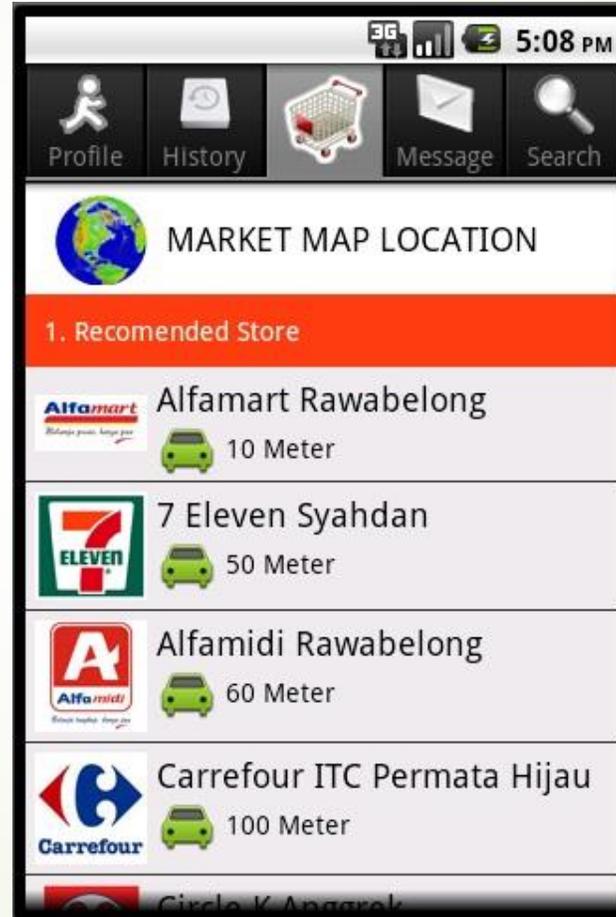


- Able to extract any information from all data using several algorithms
- Software:
 - ❑ RapidMiner Studio 7.1
 - ❑ Text Editor (Notepad / Notepad++ / Textpad / Sublime Text)
 - ❑ Microsoft SQL Server Enterprise 2016
 - ❑ Visual Studio Business Intelligence 2015
 - ❑ Microsoft Office Excel 2010
 - ❑ Microsoft Office Word 2010

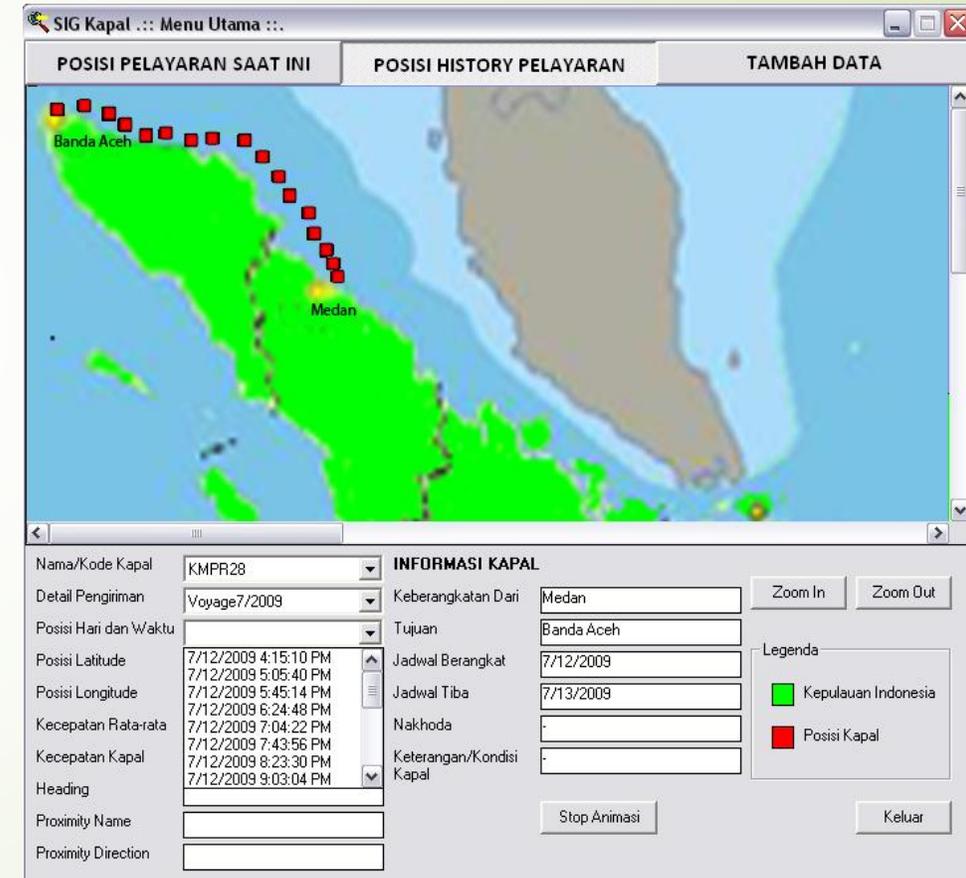
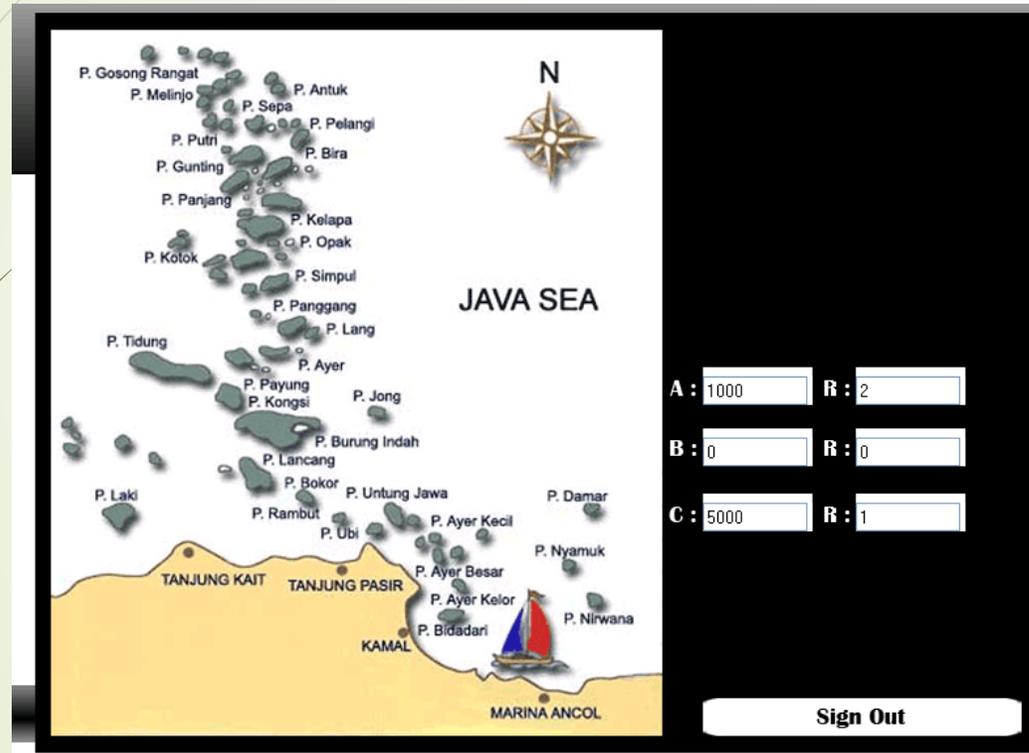
Database Applications



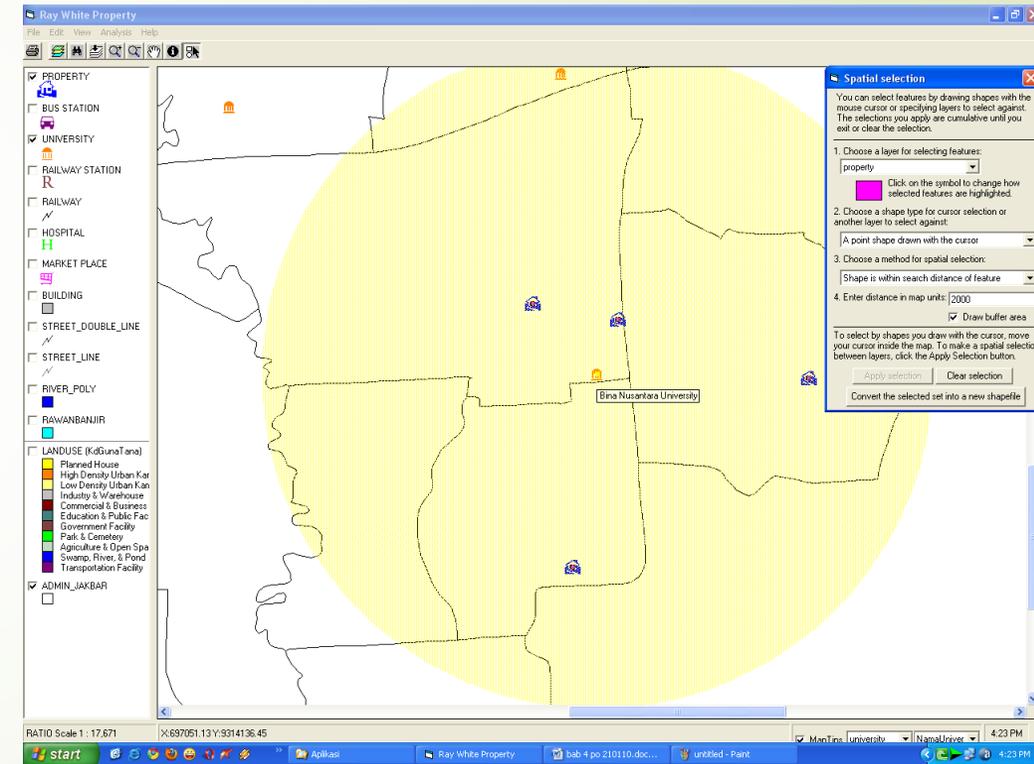
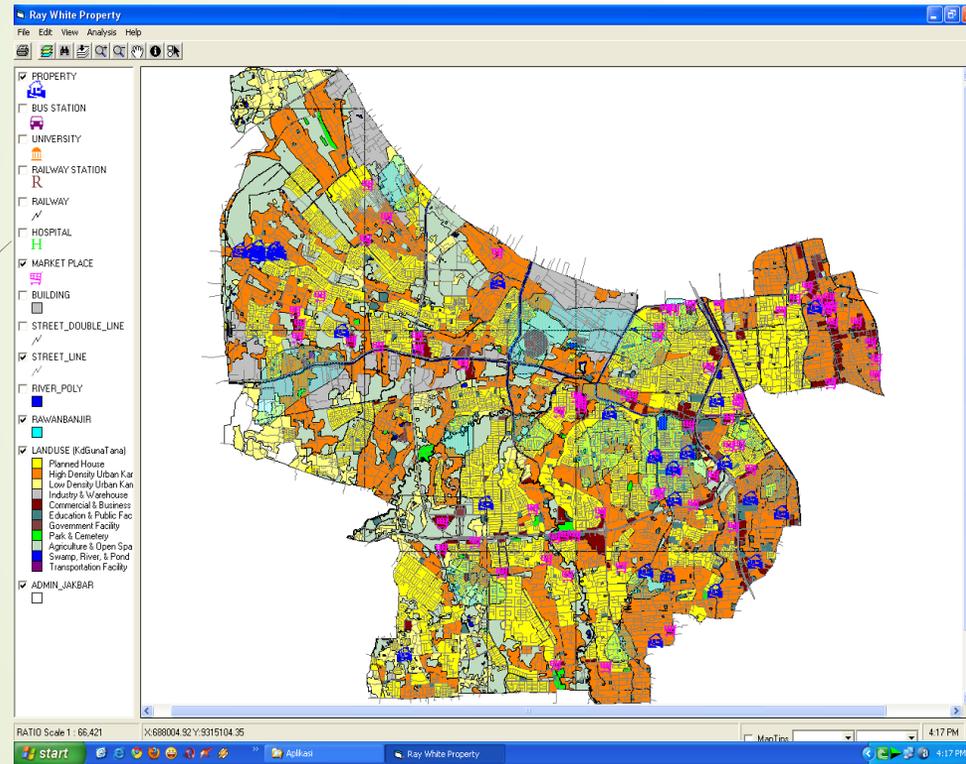
Database Applications



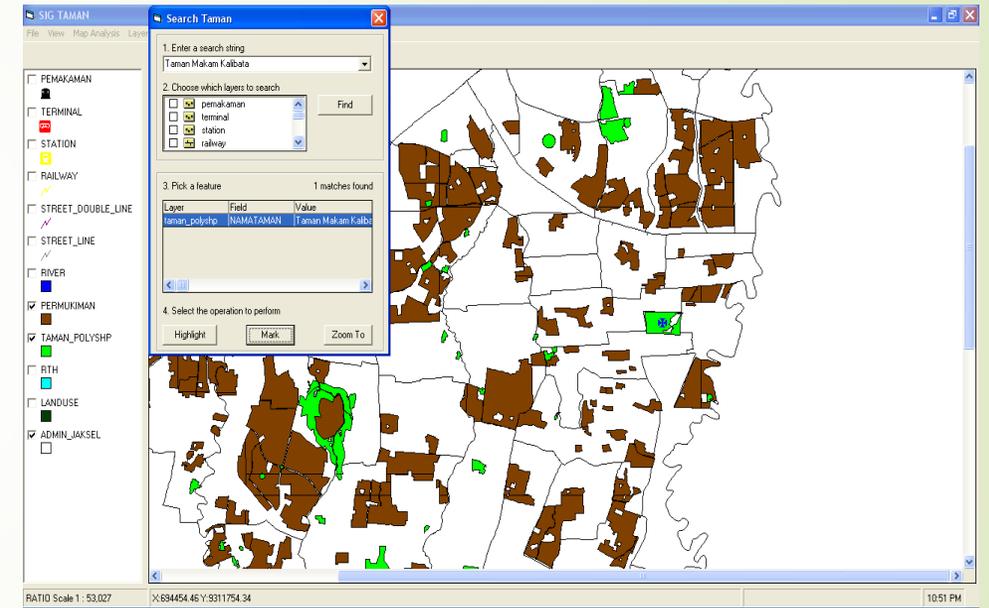
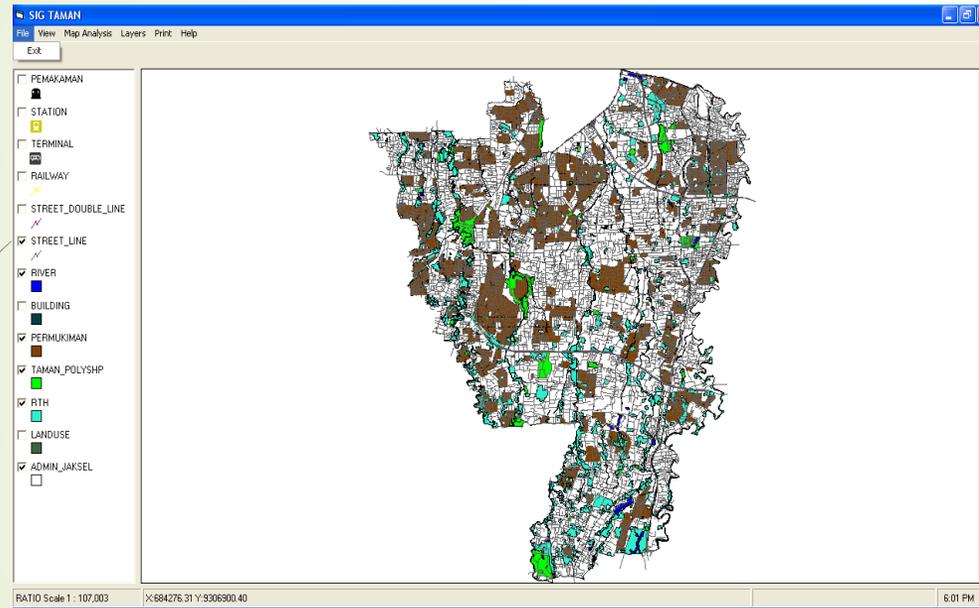
Database Applications



Database Applications



Database Applications



Database Applications

The screenshot shows a window titled "Main Program - [Laporan Ekspor]". The menu bar includes "File", "Pengiriman", "Surat Jalan", "Pembayaran", "Klaim", "Sewa Gudang", "Laporan", "Master", and "About". The user is logged in as "Welcome, Admin". The interface includes date filters for "Tampilkan laporan dari tanggal" (14/01/2011) and "sampai tanggal" (14/01/2011), with "Tampilkan" and "Reset" buttons. The main report area displays "Laporan Pengiriman Ekspor" for the date 14/01/2011. The report table has the following data:

Kd Faktur Ekspor	Nama Client	Negara Tujuan	Tgl Pembayaran	Jumlah Bayar
E100001	C H	Singapore	08/12/2010	Rp. 7.500.000,00
Total:				Rp. 7.500.000,00

At the bottom, it shows "Current Page No.: 1", "Total Page No.: 1", and "Zoom Factor: 100%".

The screenshot shows a window titled "Main Program" with the same menu bar and user information as the first screenshot. A "Klaim" dialog box is open, titled "Klaim". It has a "Pilih jenis transaksi:" section with buttons for "Lokal", "Ekspor", "Impor", and "Cancel". The "Lokal" button is selected. The "Data faktur" section includes fields for "Kd Klaim" (value: kdklaim), "Kd Faktur", "Nama Client", and "Tgl Klaim" (value: 14/01/2011). A note says "[Pilih kode faktur terlebih dulu sebelum memasukkan nama barang]". The "Detail Klaim" section has a table with columns: "Nama Barang", "Banyaknya", "Unit", and "Keterangan". Below this table is a "Posting" button. A red minus button is also present with the text "[Klik tombol '-' untuk menghapus barang yang sudah ditambahkan]".

Database Applications

YAYASAN IKATAN KELUARGA
JEMA'AH HAJI AL - RAUDHAH

Halaman Utama Tentang Kami Program Artikel Kontak

[Tentang Kami](#)
Sejarah Yayasan Ikatan Keluarga Jemaah Haji Al-Raudhah
Visi dan Misi

[Haji](#)
Pengertian Haji
Haji Regular
Haji Plus

[Umrah](#)
Pengertian Umrah
Umrah Biasa
Umrah Arabain

CALENDER
14
Jumadi 1432
S Ss R K J Sbt M
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
24 25 26 27 28 29 30
31

Selamat Sore di situs Yayasan Ikatan Keluarga Jemaah Haji Al-Raudhah

[Kembali ke bawah](#)

ASSALAMU'ALAIKUM WARAHMATULLAHI WABARAKATUH

SELAMAT DATANG

Di Situs Yayasan Ikatan Keluarga Jemaah Haji Al-Raudhah



[Kembali ke atas](#)

Artikel Terbaru

Icha
Keluhan datang dari Jamaah Haji, mereka mengeluhkan jarak pemondokkan yang begitu jauh dari Masjidil Haram dipandang sangat tidak efisien. Jarak untuk Jamaah Haji Indonesia berkisar antara 3-5 Km. Tentu hal ini sangat merepotkan bagi mereka yang ingin pergi ke Masjidil Haram, belum lagi bagi mereka yang sudah lanjut usia.
Koran Kompas

Halaman :
[Pertama](#) | [Sebelumnya](#) | 1 2 3 [4]
Total Artikel : 7

Yayasan Ikatan Keluarga Jemaah Haji Al-Raudhah. Copyright © 2010. Jakarta.

YAYASAN IKATAN KELUARGA
JEMA'AH HAJI AL - RAUDHAH

Halaman Utama Tentang Kami Program Data Pribadi Ubah Sandi Kontak Logout

[Berkas Formulir Pendaftaran](#)

[Pembayaran](#)

[Detail Keberangkatan](#)

[Jadwal](#)

[Forum](#)

CALENDER
22
Jumadi 1432
S Ss R K J Sbt M
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31

Selamat Malam di situs Yayasan Ikatan Keluarga Jemaah Haji Al-Raudhah

[Kembali ke bawah](#)

Di Situs Yayasan Ikatan Keluarga Jemaah Haji Al-Raudhah

PEMBAYARAN

Halaman Utama > [Pembayaran](#) > Status Pembayaran

Status Pembayaran
Status Pembayaran Ungkos Naik Haji / Biaya Umrah

Tahun 2011

Nama Program	Tagihan (Rp)		Pembayaran (Rp)		Keterangan
	Pembayaran 1	Pembayaran 2	Pembayaran 1	Pembayaran 2	
Haji Regular	2010-01-15 36000000	2010-01-27 22500000	2010-01-16 36000000	2010-01-28 2000000	LUNAS

Yayasan Ikatan Keluarga Jemaah Haji Al-Raudhah. Copyright © 2010. Jakarta.



Research Areas

DBMS optimization

Distributed databases

Graph databases

Database systems and data warehousing in bioinformatics

NoSQL

Big data

Cloud computing

Data mining

Machine learning

Deep learning



Career Prospects

- 
- Database Program Designer
 - Database Administrator / Engineer
 - Data Analyst
 - Big Data Engineer
 - GIS Engineer / Specialist
 - Application Developer
 - Researcher / Lecturer

😊 **Thank You** 😊

