



Open Source BI Reporting Tools

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MySQL Community Manager

The Problem

- You have a highly available, high performance MySQL instances that are all perfectly 3NF-ed, sharded, replicated, partitioned, scaled, hadooped, and/or in a cloud.

The Problem

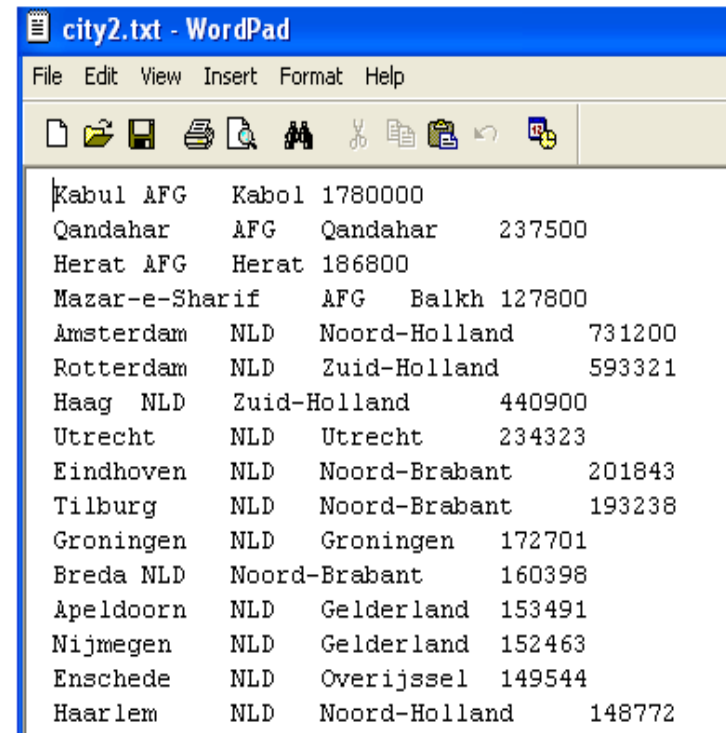
- You have a high performance MySQL database that is 3NF-ed, sharded, scaled, hadoop-integrated, and otherwise m-ly



Then someone says 'Hey DBA! Can you make me a report??'

SELECT a,b,c FROM foo not that impressive

- You want a good looking report
 - Excel (ugh)
 - Write a one off report generator
 - Pay \$\$
 - Use open source BI reporting tool



Kabul	AFG	Kabul	1780000
Qandahar	AFG	Qandahar	237500
Herat	AFG	Herat	186800
Mazar-e-Sharif	AFG	Balkh	127800
Amsterdam	NLD	Noord-Holland	731200
Rotterdam	NLD	Zuid-Holland	593321
Haag	NLD	Zuid-Holland	440900
Utrecht	NLD	Utrecht	234323
Eindhoven	NLD	Noord-Brabant	201843
Tilburg	NLD	Noord-Brabant	193238
Groningen	NLD	Groningen	172701
Breda	NLD	Noord-Brabant	160398
Apeldoorn	NLD	Gelderland	153491
Nijmegen	NLD	Gelderland	152463
Enschede	NLD	Overijssel	149544
Haarlem	NLD	Noord-Holland	148772

BIRT, JasperReport & Pentaho

- Open Source Reporting Tools
 - Commercial version available, ala MySQL
 - ETL and other tools available
- Need Java (JRE or JDK) and Connector/J or ODBC
- Work *VERY* well with MySQL
- Documented fairly well
- Multiple operating systems supported
- Did I mention they were open source?
- There are other reporting software out there but these three are used for examples

What kind of reports can I get?

- Simple lists
- Grouped lists
- Multiple column
- Cross tabs
- Graphs
- Values can be computed, filtered, aggregated

Similar Logical Flow

- Start Program
- New Project
- New Report
- Connect to MySQL Instance
 - ***jdbc:mysql://host:database***
- Make query
 - Let BI software do the GROUP BY work!
 - Let BI do software filtering, ire. Population > 20000000
- Refine rough report
- SAVE

Similar Logical Flow

IMPORTANT!!!!

- ⇒ Start Project
- ⇒ New Project
- ⇒ New Report
- ⇒ Connect to MySQL Instance
 - ⇒ ***`jdbc:mysql://host:database`***
- ⇒ Make query
 - ⇒ Let BI software do the GROUP BY work
 - ⇒ Let BI do software filtering, i.e. Population > 20000000
- ⇒ Refine rough report
- ⇒ SAVE

Ad-Hoc to Regular Process

- Writing good reports is a skill
- Publishing Standards
- Clarity
- All three tools presented have ways to turn reports into an an automated process for regular distribution. Your mileage may vary.

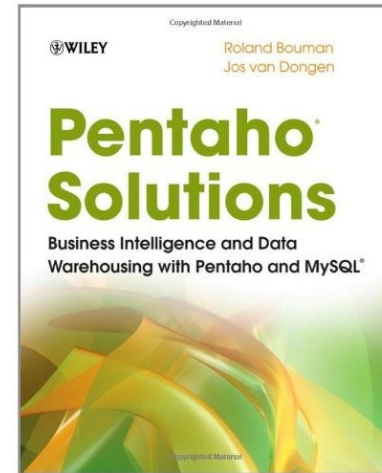
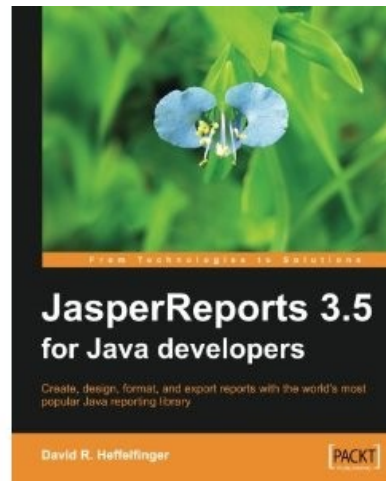
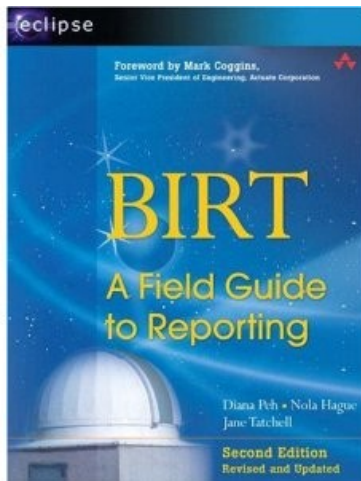
Conclusion and Hints

- ⇒ BIRT, JasperReport, and Pentaho work!!
- ⇒ Personal Preference will help you chose the reporting tool of your choice
 - ⇒ May need a suite of tools to work together like Spoon and Mondrian in your environment
 - ⇒ May work with your IDE (NetBeans or Eclipse)
- ⇒ High cost report writers may have features that your company needs
 - ⇒ Or you boss requires
- ⇒ Excel-centric users will go 'pivot-table' on your butt!

DEMOS

- ⇒ Quick demonstrations follow (as time permits) when slides finish!

Books



Summary

- ⇒ You can have good looking reports
- ⇒ Work great with MySQL
- ⇒ Open Source tools work
- ⇒ Thank *you* for your time!

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or

⇒ <http://NorthTexasMySQL.ORG>

And for your calendar...

- **Community dinner tomorrow night at Tech Mart**
- **OTN MySQL Developer Day May in Santa Clara May 3rd**
- **This talk will be presented to the SF MySQL Users Group May 3rd**
- **Oracle Open World – MySQL Track, October 2-6**