

A REPORT BY ANY OTHER NAME

...WOULD PROBABLY BE JUST ANOTHER APP
SCREEN

OVERVIEW

- Intro
- Reports Defined (or not)
- Reports in SSP (w/o OLAP)
- Reports in SSP (w/ OLAP)
- Reports Defined (or not)

INTRO

ME

SOFTWARE ARCHITECT AT UNICON, INC

PLENTY OF SAKAI

LITTLE BIT OF
UPORTAL, CAS, ETC

RECENTLY *LOTS* OF
SSP

 UNICON®

OPEN SOURCE CONSULTING

COMMERCIAL AND EDU

1993

OPEN SOURCE

SUPPORT

HOSTING AND MANAGED SERVICES

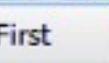
SSP



“According to Sinclair statistics from 2005 – 2011, students using SSP were five times more likely to graduate. For quarter to quarter retention rates ... transitioned SSP students ... had a 37% higher rate of retention compared to students who qualified for the program but did not participate and a 26% higher rate of retention than students not designated “at risk”.

http://www.studentsuccessplan.org/index.php?option=com_content&view=article&id=81:ssphistory&catid=43:main&Itemid=110

Students

Students						>> Student: Joseph Mumford Jackson - ID#: jjackson10		Coach: Chris Garcia	Coaching History	Edit				
Active			 				Dashboard	Details	Transcript	Placement	Contact	Coach	Schedule	
 			  				 NO PHOTO		Full Name: Joseph Tartan ID: jjackson10 DOB: 08/20/1983 Phone: 480-775-2 Email: 1@unicon. Student Type: ILP SSP Status: Active		GPA: 2.33 Comp Rate: null% Standing: null Restrictions: null Reg: Payment: FA Award: SAP: F1: Early Alerts: 1/1 Action Plan: 0/0		Service Reasons  Service Reason 1	
First MI Last			Type	Tartan ID	Alerts									
Aaaron		Alabama	CAP	92983	0									
Taylor		Arkansas	EAL	392994	0									
Lisa		California	CAP	39929034	0									
Jason		Colorado	CAP	3284910	0									
Pablo		Connecticut	EAL	38829	0									
Zunker		Dakota	EAL	39202334	0									
Tim		Delaware	CAP	99939999	0									
James		Florida	ILP	39203929	0									
Curtis		Georiga	EAL	93828	0									
Jim		Hawaii	EAL	398293	0									
Kerry		Idaho	EAL	39203	0									
Iggy		Indiana	EAL	839283	0									
Adam		Iowa	CAP	93284239	0									
Joseph	Mu...	Jackson	ILP	jjackson10	1									
John	Mu...	Johnson	EAL	042	5									
Quentin	Mar...	Kansas	EAL	2384923	0									
Jenkins		Kentucky	EAL	39281	0									
Victor		Louisiana	CAP	92834923	0									
Heather		Maine	EAL	8349201	0									
Dan		Michigan	CAP	932883	0									

REPORTS DEFINED (OR NOT)

**“REPORTS” ARE
ALWAYS SEPARATED IN
THE REQUIREMENTS**

BECAUSE...

THEY'RE NOT LIKE
OTHER APP SCREENS
OR FEATURES

...RIGHT?

BECAUSE REPORTS
ARE...

SCHEDULED...

...OR ON DEMAND

THEY'RE AS CURRENT
AS THE LAST ETL
JOB...

...OR UPDATE IN REAL
TIME

THEY'RE ROLLED UP...

...OR DRILLED-DOWN

PRE-DEFINED...

...OR USER-DEFINED

OFFLINE...

...OR ONLINE

GRAPHICAL...

...OR TABULAR

PRINTABLE...

...OR INTERACTIVE

ADMINISTRATIVE...

...OR FOR THE PLEBES

<UGH/>

SSP HAS “REPORTS”

AND EVEN USES A
“REPORTING” LIBRARY

BUT THEY'RE NOT
ACTUALLY ANY
DIFFERENT THAN ANY
OTHER APP SCREEN

THEY'RE JUST MORE
PAINFUL TO
IMPLEMENT

AND NEED TO GUESS
EXACTLY RIGHT AT THE
DETAIL LEVEL

CUSTOM REPORT REQUIREMENTS?

THAT'S A NEW APP
SCREEN!

TOP TO BOTTOM

... OR A GNARLY SQL
QUERY

```

select p.first_name, p.last_name, p.school_id student_id,
       isnull(ms.name, 'UNKNOWN') marital_status,
       isnull(pd.gender, 'UNKNOWN') gender,
       isnull(c.name, 'UNKNOWN') citizenship,
       isnull(vs.name, 'UNKNOWN') veteran_status,
       primary_caregiver =
           case when pd.primary_caregiver is null then 'UNKNOWN'
                 when pd.primary_caregiver = 1 then 'YES'
                 else 'NO'
           end,
       isnull(ss.name, 'UNKNOWN') student_status,
       orientation_complete =
           case when pep.new_orientation_complete is null then 'UNKNOWN'
                 when pep.new_orientation_complete = 1 then 'YES'
                 else 'NO'
           end,
       registered =
           case when pep.registered_for_classes is null then 'UNKNOWN'
                 when pep.registered_for_classes = 1 then 'YES'
                 else 'NO'
           end,
       isnull(pel_view.pel_el, 'UNKNOWN') education_level,
       isnull(eg.name, 'UNKNOWN') education_goal,
       planned_major =
           case when peg.planned_major is null then 'UNKNOWN'
                 when peg.planned_major = '' then 'UNKNOWN'
                 else peg.planned_major
           end,
       isnull(peg.how_sure_about_major, -1) major_surety_1_unsure_5_sure,
       career_decided =
           case when peg.career_decided is null then 'UNKNOWN'
                 when peg.career_decided = 1 then 'YES'
                 else 'NO'
           end,
       planned_occupation =
           case when peg.planned_occupation is null then 'UNKNOWN'
                 when peg.planned_occupation = '' then 'UNKNOWN'
                 else peg.planned_occupation
           end,
       isnull(peg.how_sure_about_occupation, -1) occupation_surety_1_unsure_5_sure,
       confident_in_abilities =
           case when peg.confident_in_abilities is null then 'UNKNOWN'
                 when peg.confident_in_abilities = 1 then 'YES'
                 else 'NO'
           end,
       need_program_info =
           case when peg.additional_academic_program_information_needed is null then 'UNKNOWN'
                 when peg.additional_academic_program_information_needed = 1 then 'YES'
                 else 'NO'
           end,
       isnull(pfs_view.pfs_fs, 'UNKNOWN') funding_source
from person p
left outer join person_demographics pd on p.person_demographics_id = pd.id and pd.object_status = 1
left outer join marital_status ms on pd.marital_status_id = ms.id
left outer join citizenship c on pd.citizenship_id = c.id
left outer join veteran_status vs on pd.veteran_status_id = vs.id
left outer join person_education_plan pep on p.person_education_plan_id = pep.id and pep.object_status = 1
left outer join student_status ss on pep.student_status_id = ss.id
left outer join
(select pell.person_id, left(pell.pel_el, LEN(pell.pel_el) - 1) pel_el
 from
(select distinct pel.person_id,
(select el.name + ',' as [text()])
 from education_level el
 join person_education_level pel2 on pel2.education_level_id = el.id
 where pel2.person_id = pel.person_id
 for xml path ('')) pel_el
from person_education_level pel
 where pel.object_status = 1) pell) pel_view on pel_view.person_id = p.id
left outer join person_education_goal peg on p.person_education_goal_id = peg.id and peg.object_status = 1
left outer join education_goal eg on peg.education_goal_id = eg.id
left outer join
(select pfs1.person_id, left(pfs1.pfs_fs, LEN(pfs1.pfs_fs) - 1) pfs_fs
 from
(select distinct pfs.person_id,
(select fs.name + ',' as [text()])
 from funding_source fs
 join person_funding_source pfs2 on pfs2.funding_source_id = fs.id
 where pfs2.person_id = pfs.person_id
 for xml path ('')) pfs_fs
from person_funding_source pfs
 where pfs.object_status = 1) pfs1) pfs_view on pfs_view.person_id = p.id
where p.student_type_id is not null
order by p.last_name, p.first_name

```

<https://gist.github.com/dmccallum/4708795>



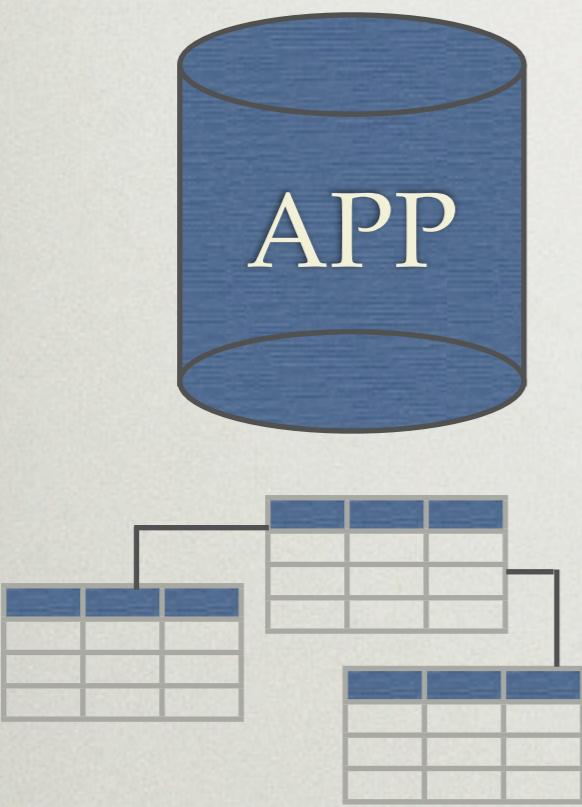
http://www.greghompson.org/images/stock_photos/CB014896.jpg

Wednesday, June 5, 13

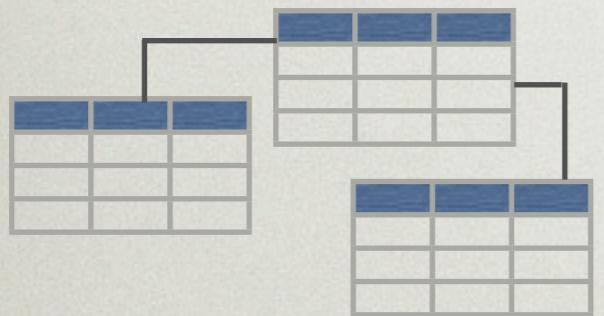
SO WHAT MIGHT SSP
DO DIFFERENTLY?

OLAP

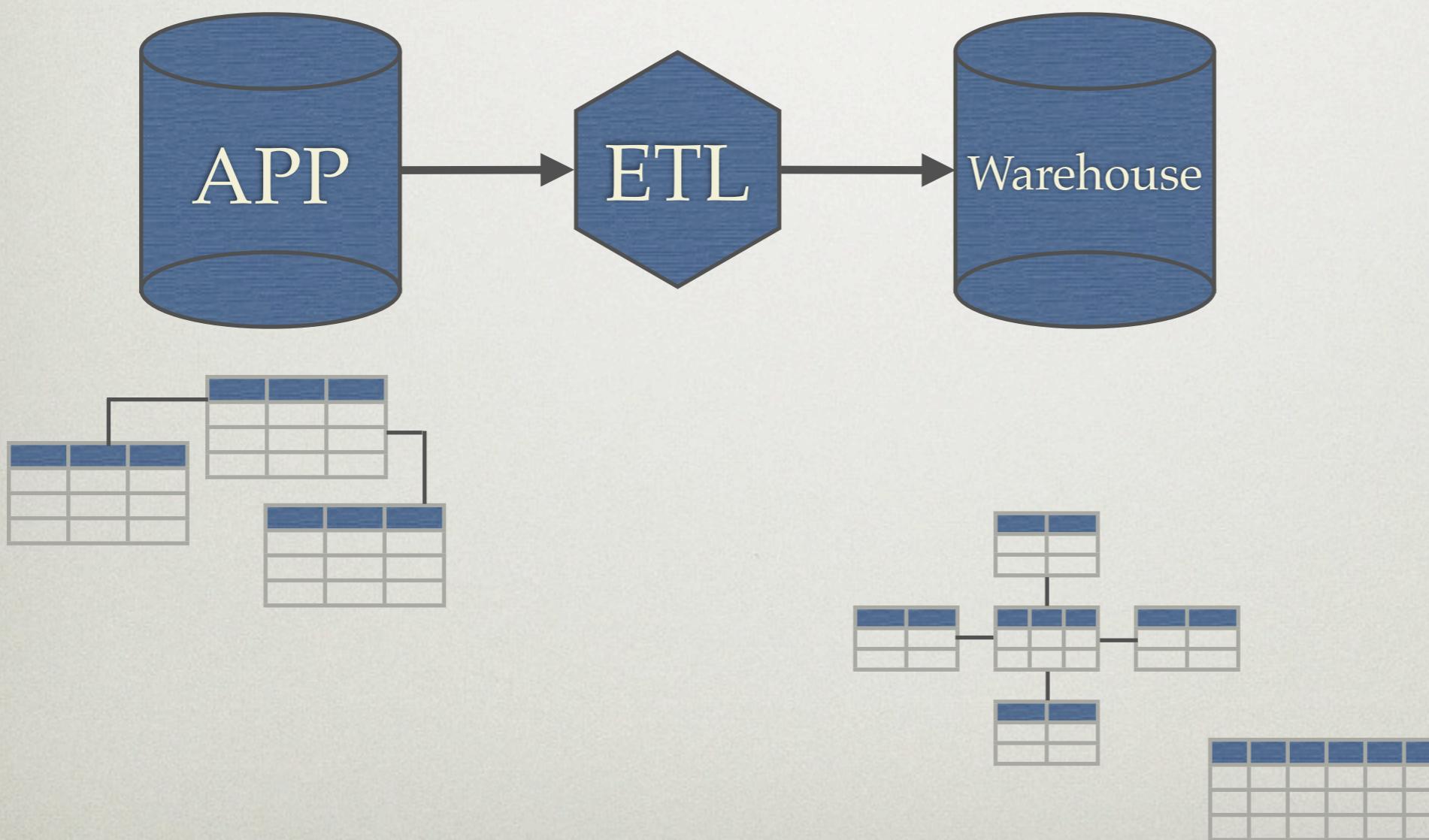
OLAP BASICS



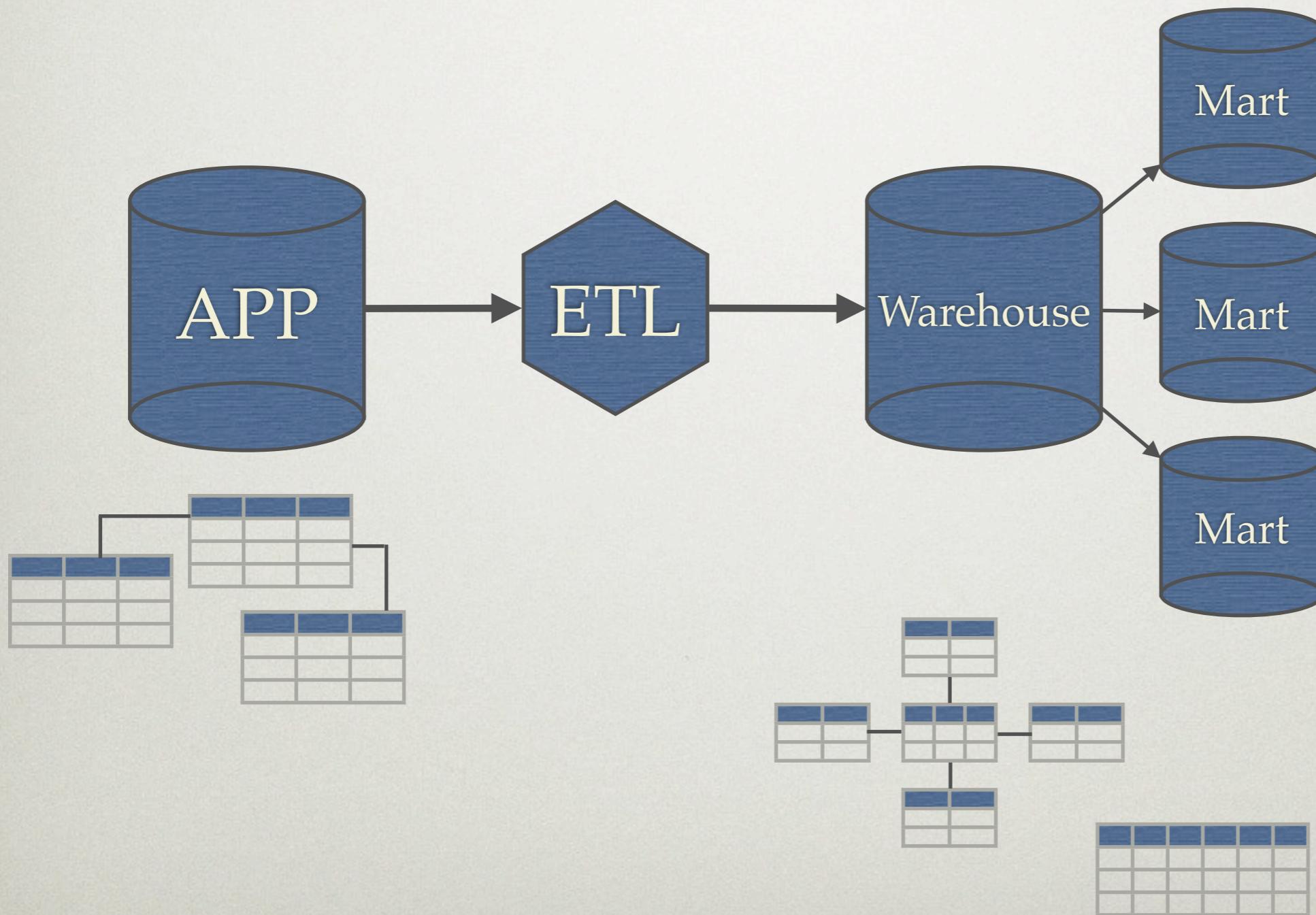
OLTP



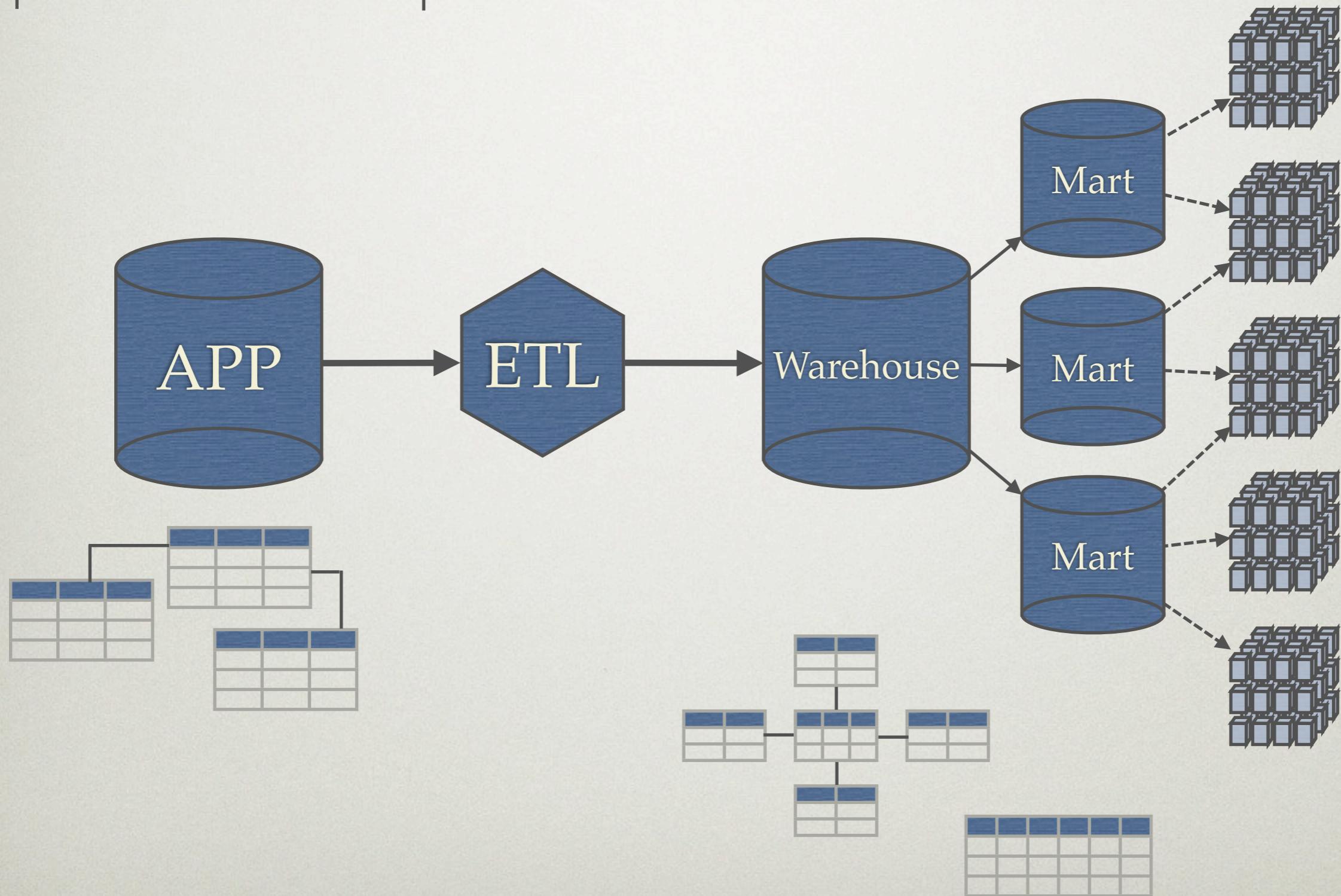
OLTP



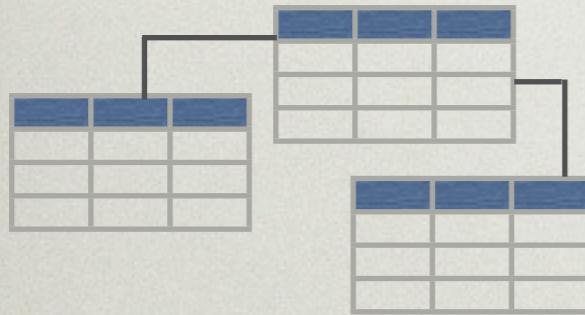
OLTP



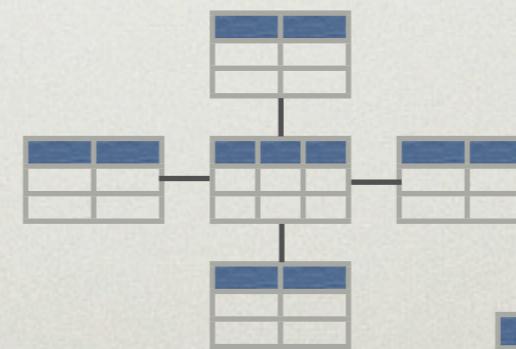
OLTP

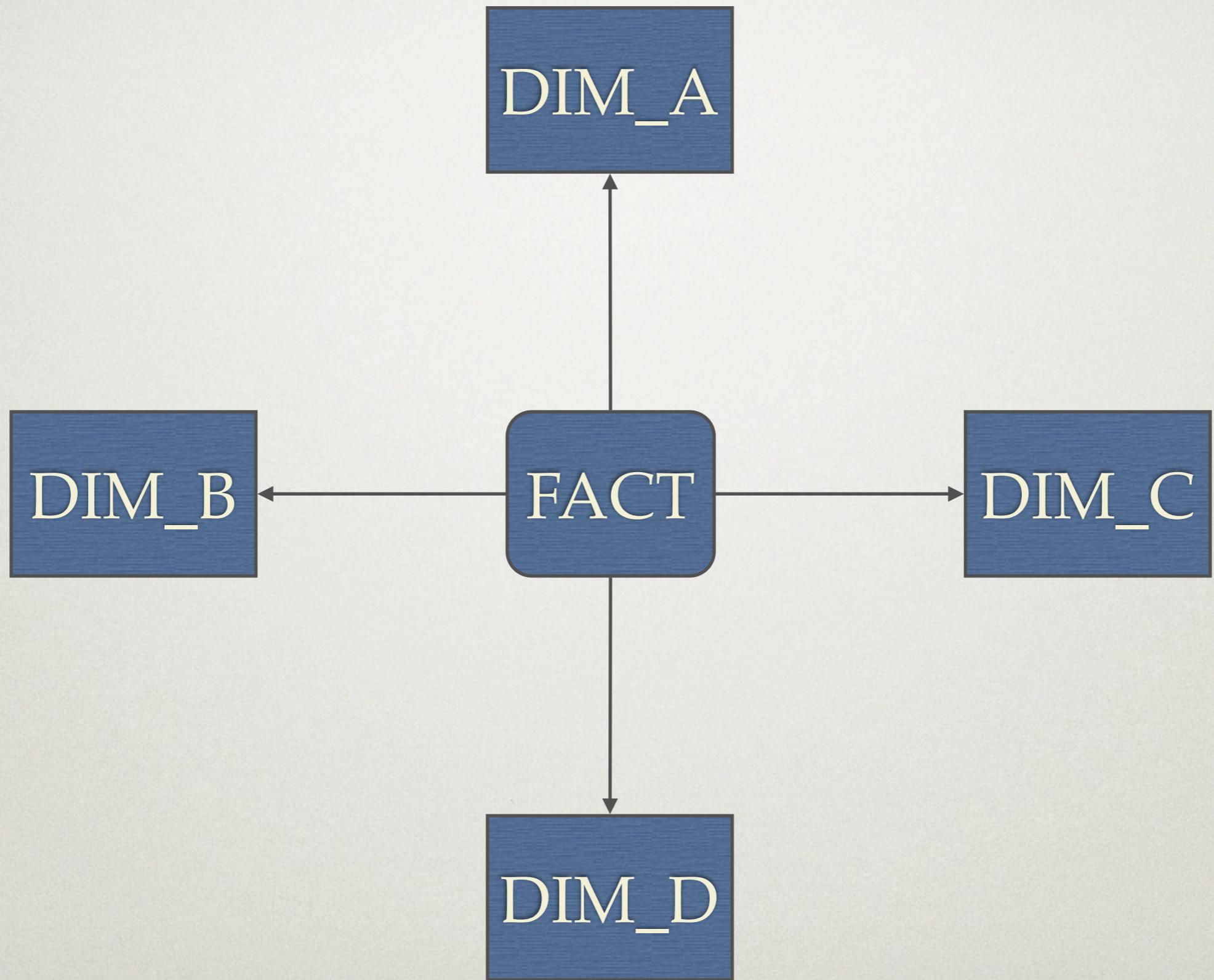


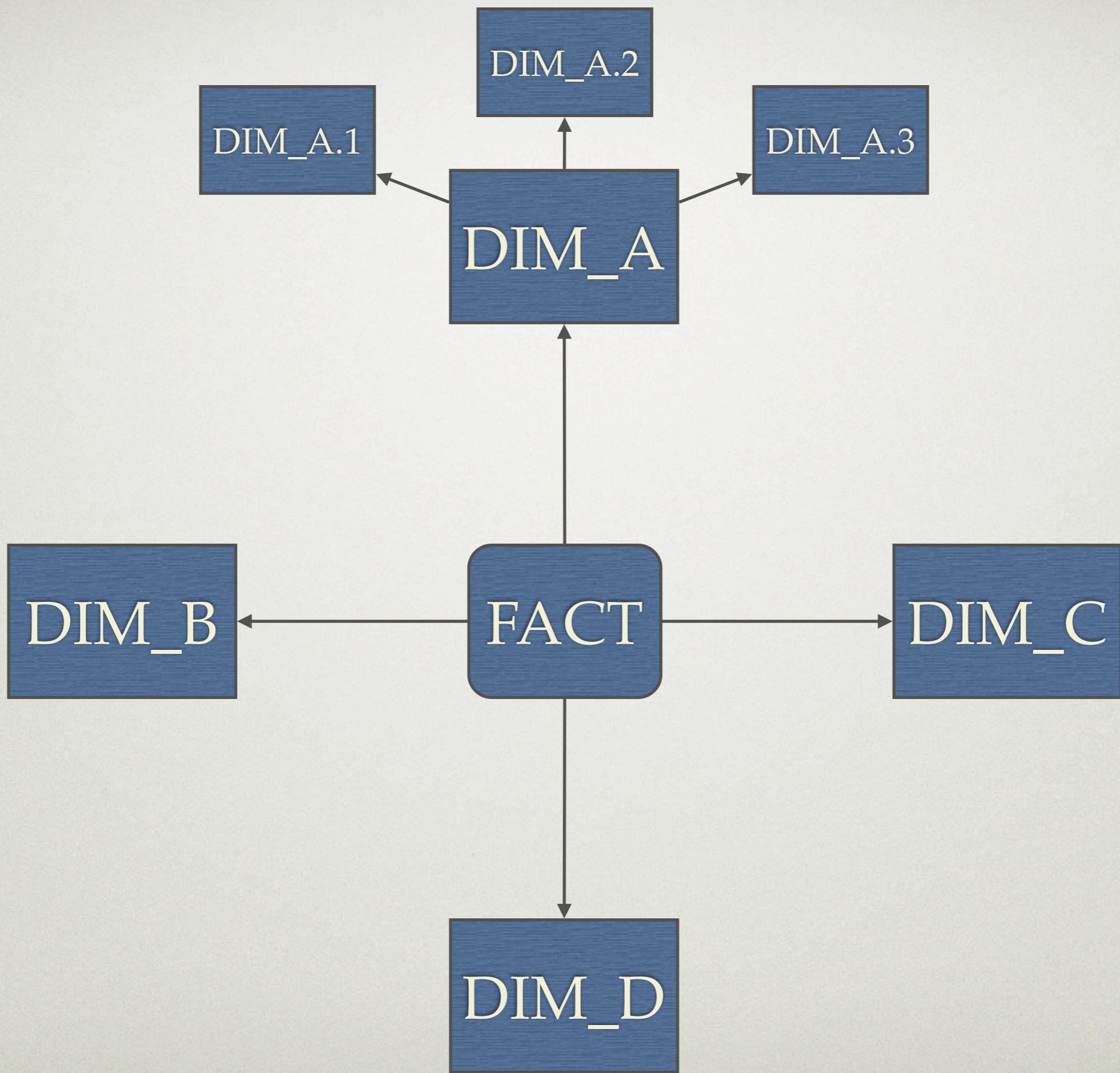
OLTP

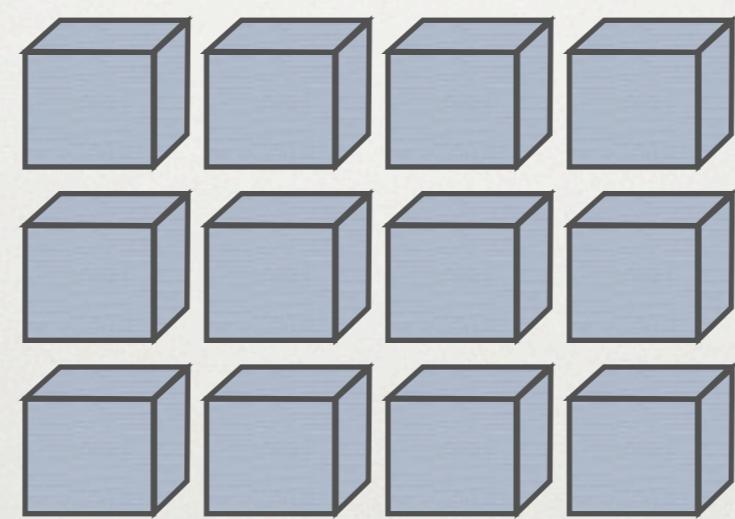


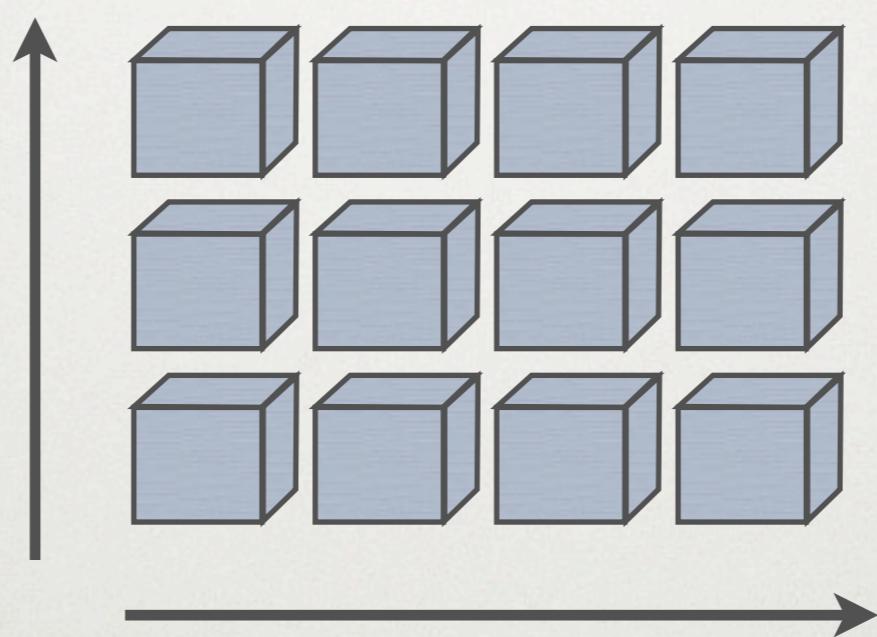
OLAP

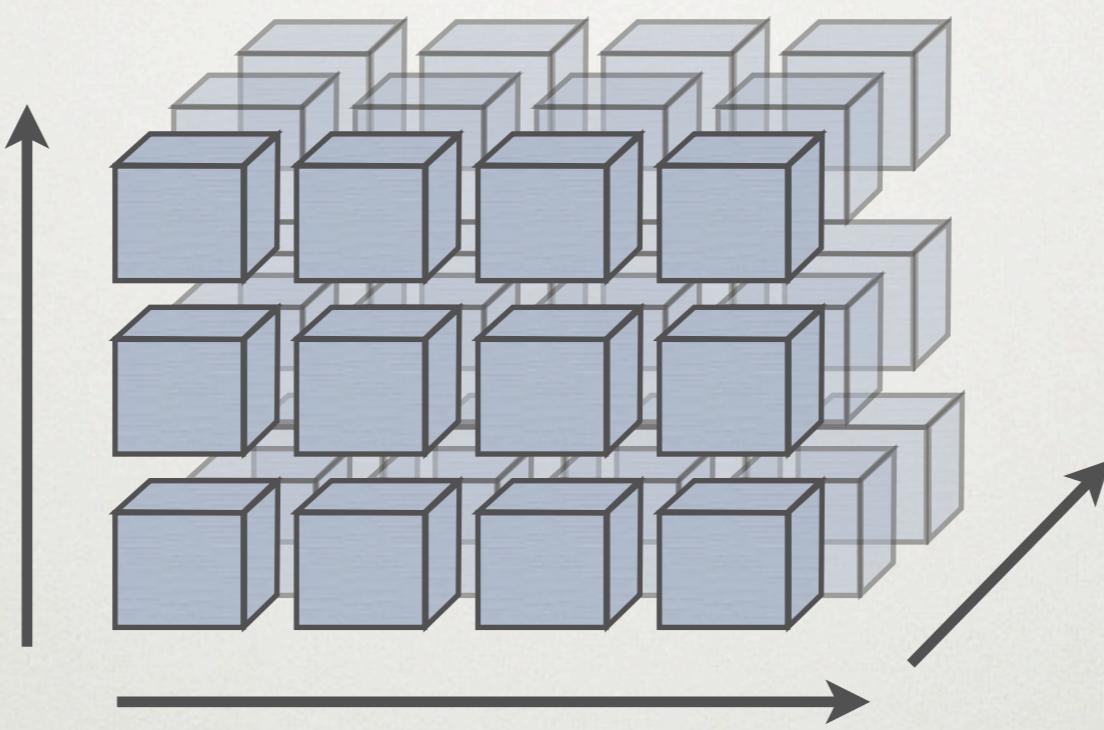


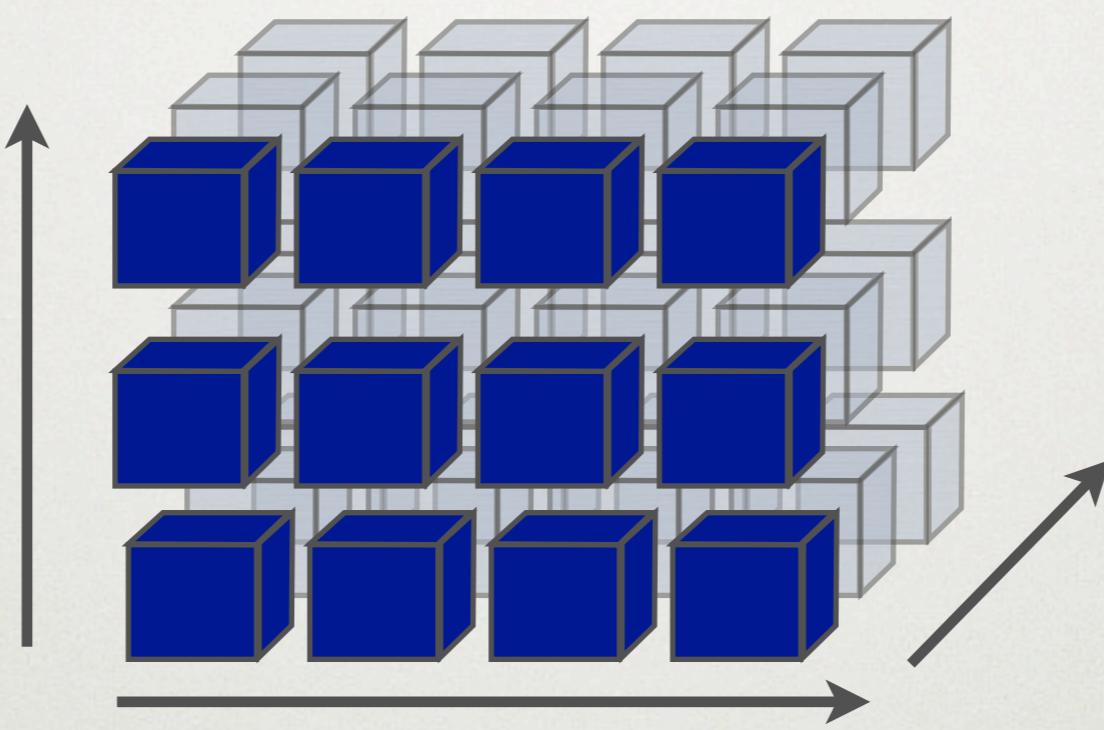


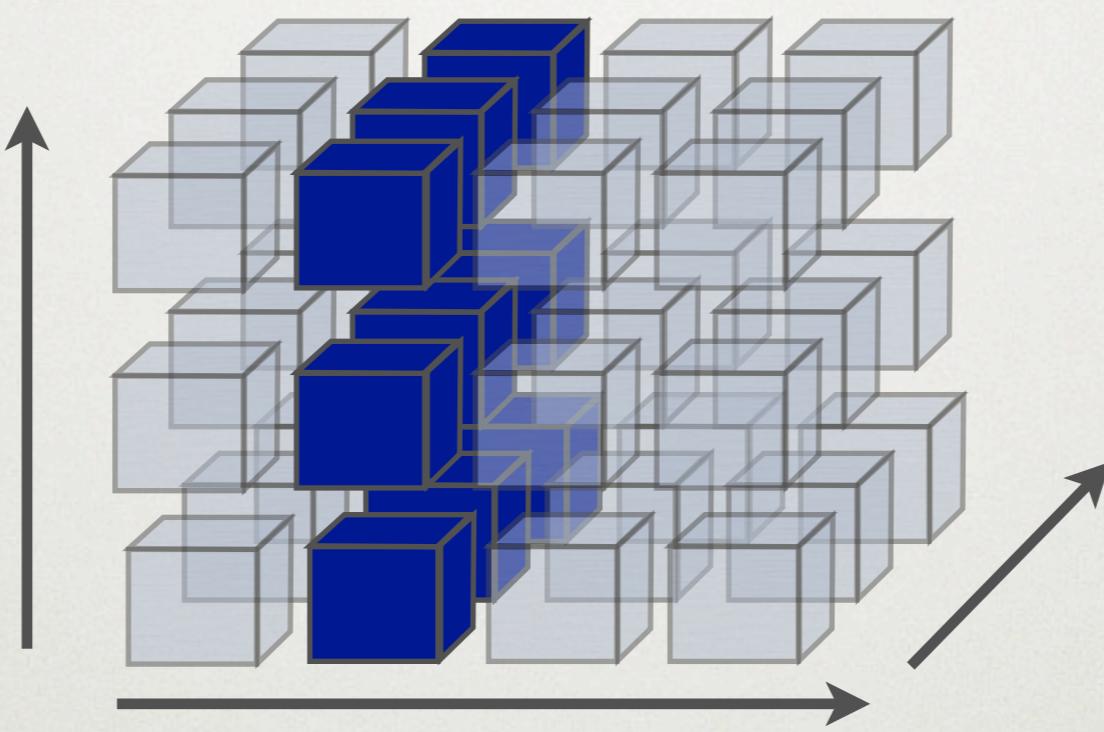


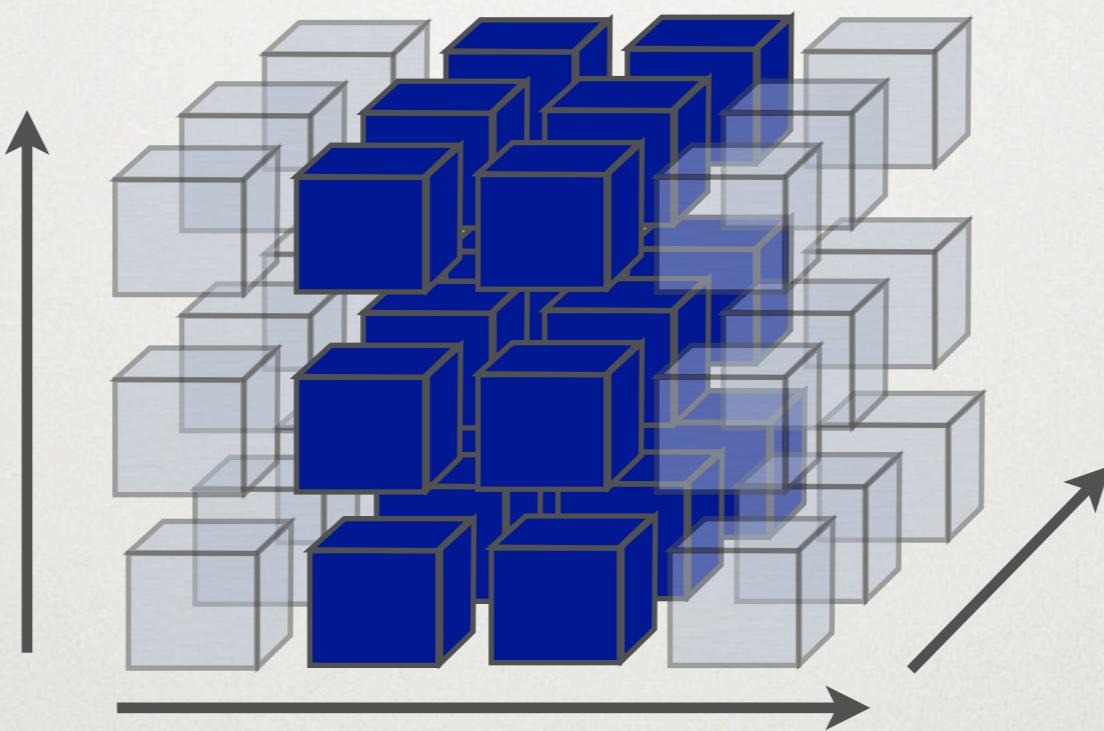


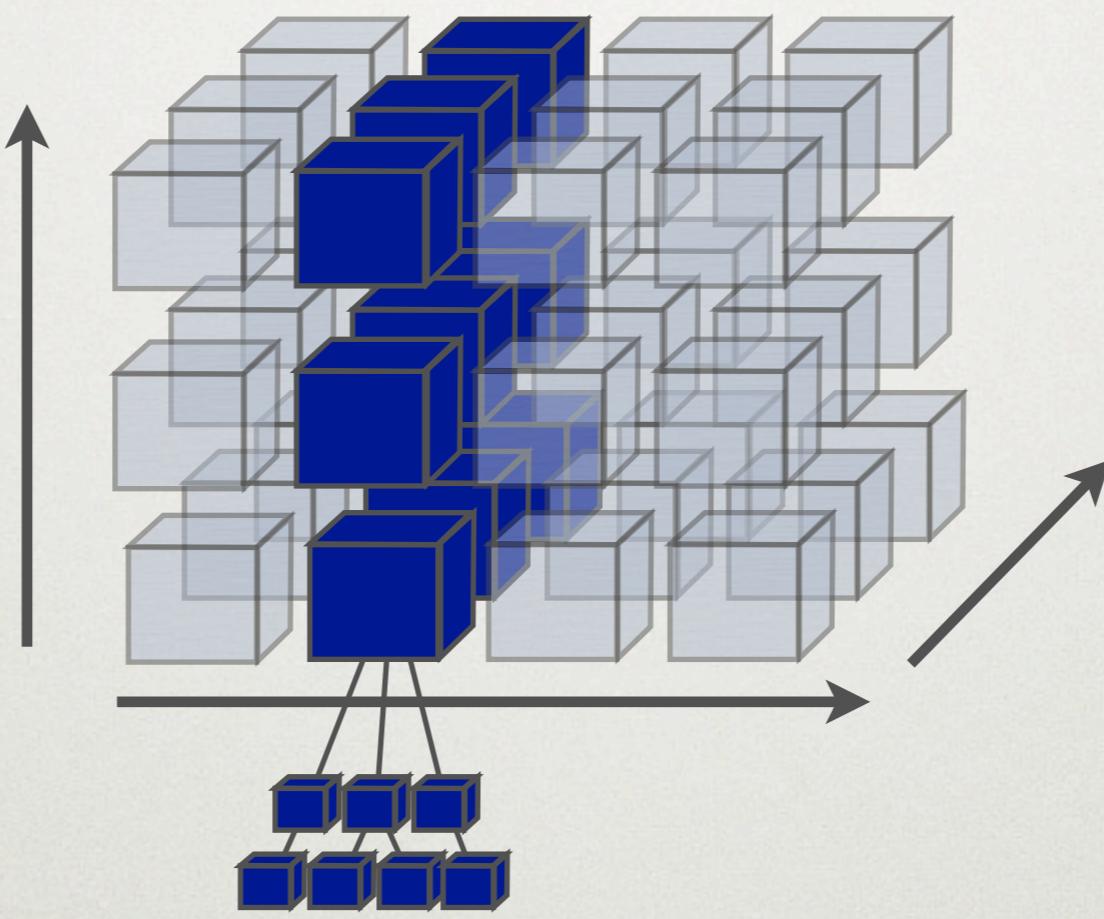








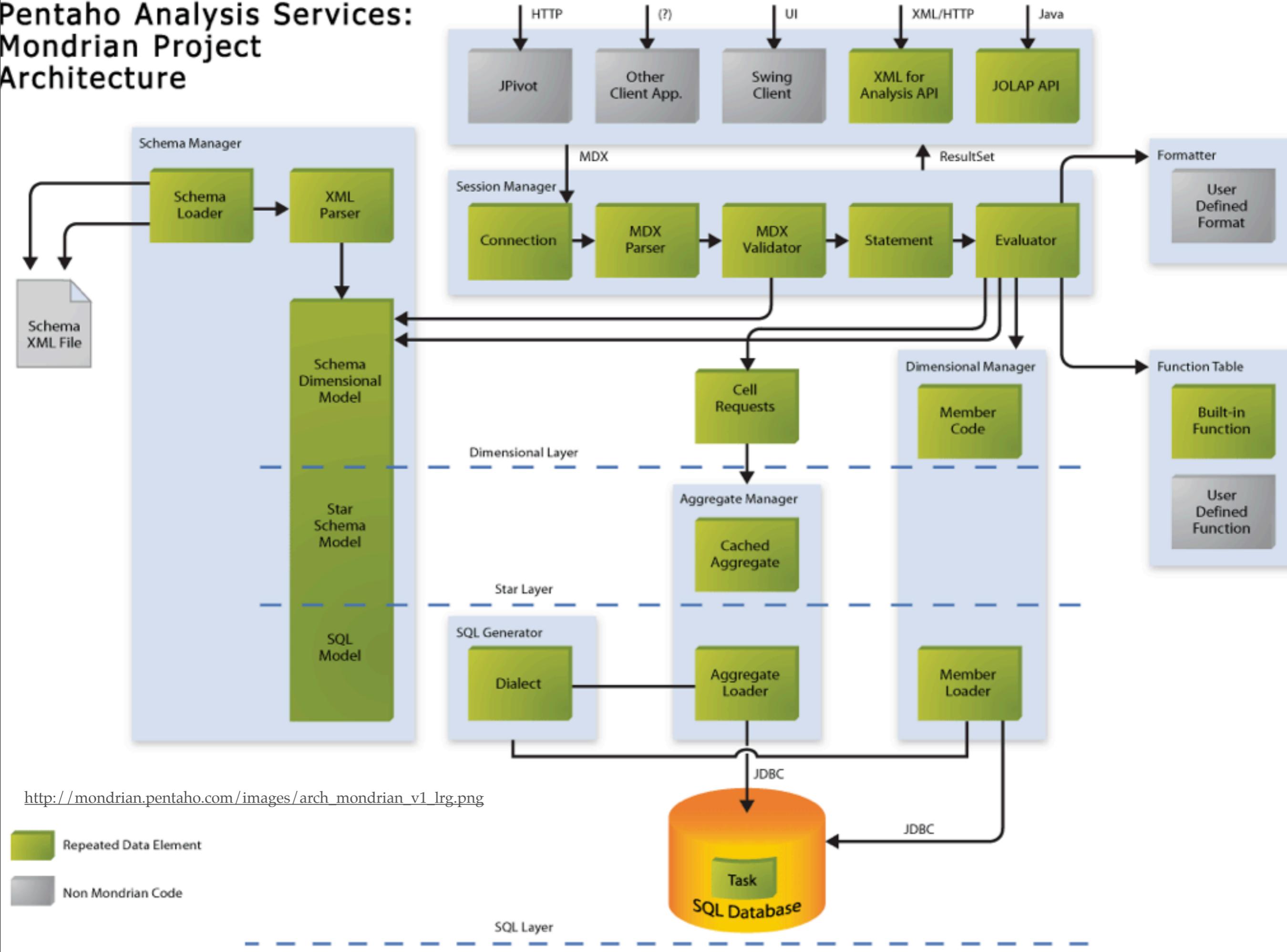




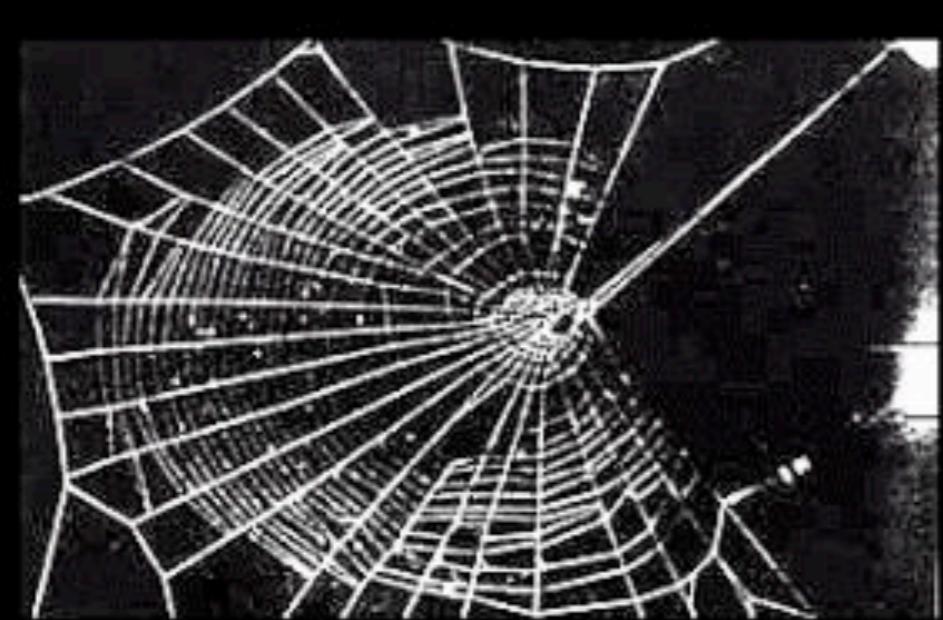
MONDRIAN

EMBEDDABLE OLAP SERVER

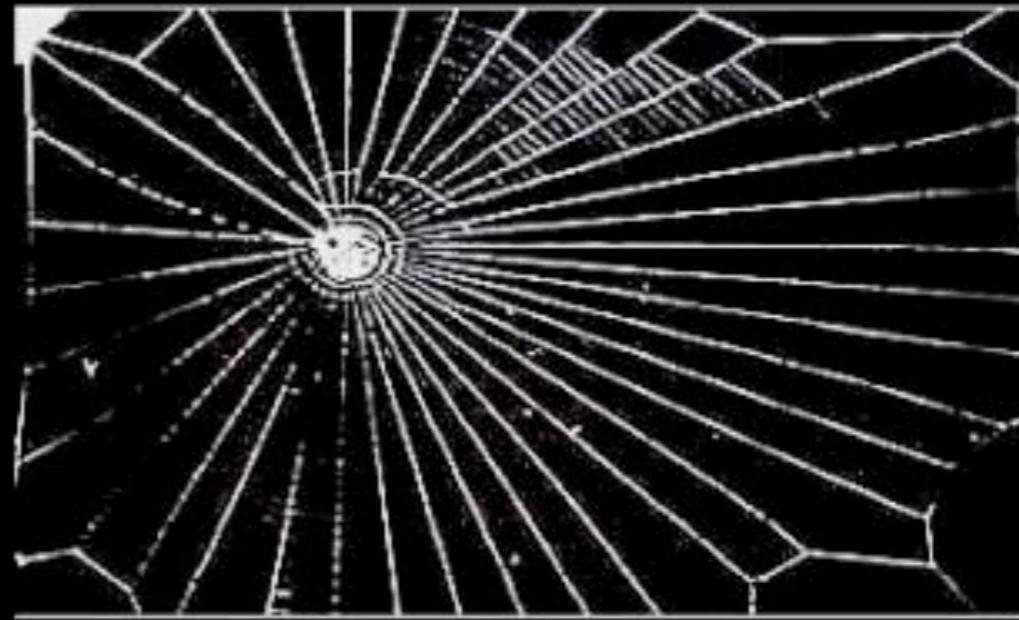
Pentaho Analysis Services: Mondrian Project Architecture



http://mondrian.pentaho.com/images/arch_mondrian_v1_lrg.png



Web created while exposed to Mescaline\Peyote



Web created while exposed to LSD



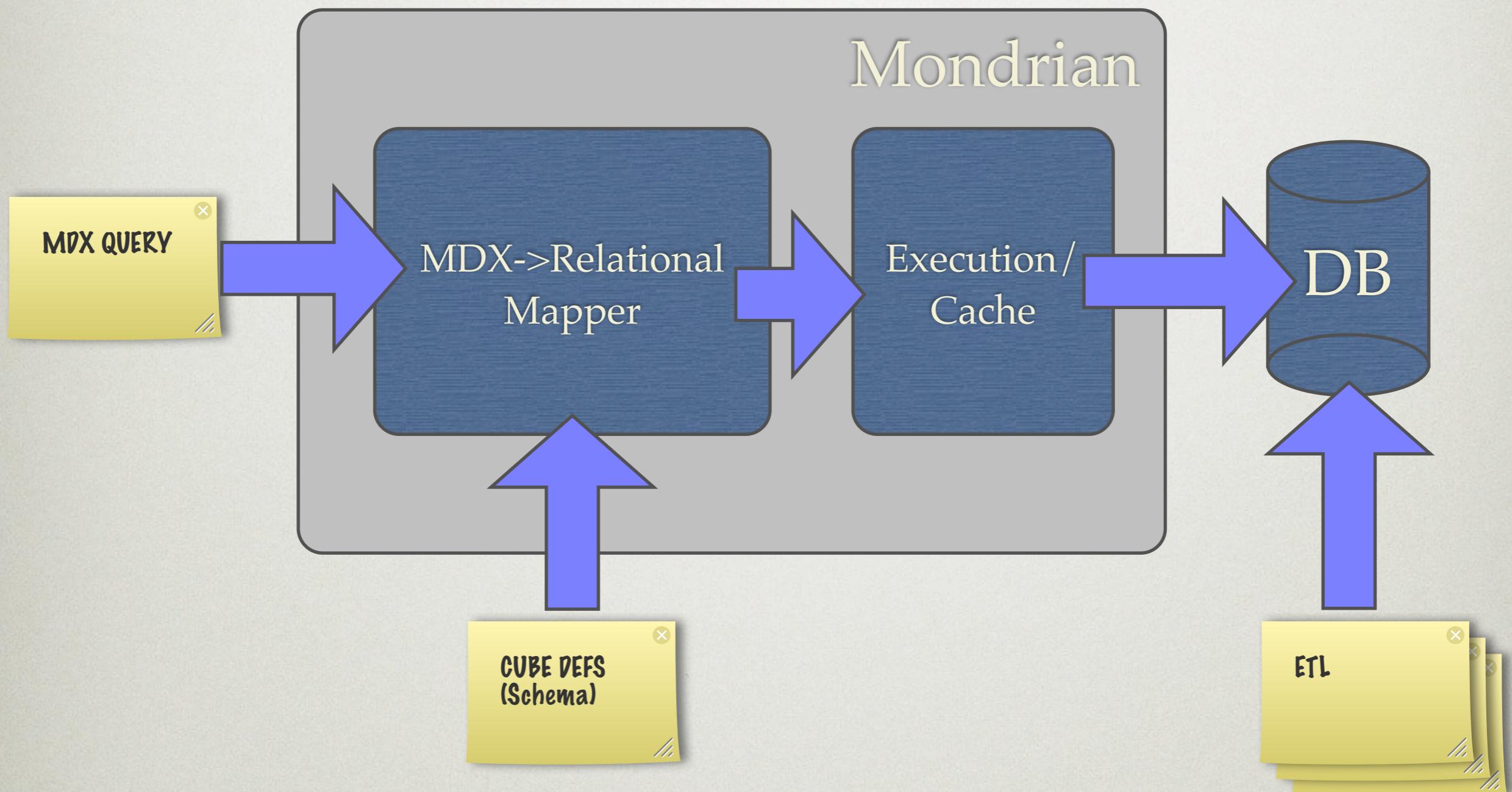
Web created while exposed to Marijuana



Web created exposed to Caffeine

ACTUALLY IT'S NOT
THAT BAD

BASICALLY JUST AN
ORM



MDX INSTEAD OF
HSQL (OR SIMILAR)

MULTI-DIMENSIONAL EXPRESSIONS

SQL-LIKE QUERIES IN TERMS OF THE ABSTRACT CUBE MODEL

LET'S SAY YOU WANT
TO SEE EACH FACT
MEASURE...

BROKEN DOWN BY ALL
THE POSSIBLE VALUES
OF SOME DIMENSION...

```
SELECT  
[Measures].Members ON COLUMNS,  
[MyDim].[MyDim].Members ON ROWS  
FROM [MyCube]
```

	Measure.1	Measure.2
MyDim.1	1.20	167
MyDim.2	2.22	298
MyDim.3	1.01	991

OR MULTIPLE
DIMENSIONS AT ONCE

```
SELECT  
CrossJoin( [MyOtherDim] . [MyOtherDim] .Members,  
[Measures] .Members) ON COLUMNS,  
[MyDim] . [MyDim] .Members ON ROWS  
FROM [MyCube]
```

	MyOtherDim.1		MyOtherDim.2	
	Measure.1	Measure.2	Measure.1	Measure.2
MyDim.1	1.09	822	9.01	8811
MyDim.2	3.67	676	4.02	2311
MyDim.3	8.00	129	0.33	109

SO MAYBE FOR SOME
SORT OF “EVENT” FACT

```
SELECT  
CrossJoin([EventSource].[EventSource].Members,  
[Measures].Members) ON COLUMNS,  
[Time].[Month].Members ON ROWS  
FROM [Events]
```

	Event Source 1		Event Source 2	
	Latency (Avg)	Count	Latency (Avg)	Count
Jan	1.09	822	9.01	8811
Feb	3.67	676	4.02	2311
Mar	8.00	129	0.33	109

MUCH MORE TO IT, OF
COURSE

CALCULATIONS,
PREDICATES,
DIMENSION
HIERARCHIES, ETC

BUT GENERALLY...

**YOU WRITE THE MDX,
MODRIAN WRITES THE
SQL**

...AND HANDLES THE
CACHING, SECURITY,
ETC...

OR GET A
PRESENTATION TOOL
TO WRITE THE MDX
FOR YOU

ER, DATA
VISUALIZATION TOOL

SAIKU

PREVIOUSLY PENTaho ANALYSIS TOOL

THINK JPIVOT

BUT MORE LICKABLE



Unsaved query (1) ×

Cubes

Sales

Dimensions

- ▶ Store
- ▶ Store Size in SQFT
- ▶ Store Type
- ▶ Time
- ▶ Product
- ▶ Promotion Media
- ▶ Promotions
- ▶ Customers
- ▶ Education Level
- ▶ Gender
- ▶ Marital Status
- ▶ Yearly Income

Measures

- ▼ Measures
 - Unit Sales
 - Store Cost
 - Store Sales
 - Sales Count
 - Customer Count
 - Promotion Sales
 - Profit
 - Gewinn-Wachstum



Columns

Store State

Profit

Promotion Sales

Rows

Product Family (1)

Filter

	CA	CA	OR	OR	WA	WA
	Promotion Sales	Profit	Promotion Sales	Profit	Promotion Sales	Profit
Food	36,055.61	\$69,212.82	22,670.11	\$61,597.22	50,953.76	\$114,954.83

IT'S JUST JQUERY
HITTING JSON REST
APIs

**SO TAKE SOME ALL OR
NONE OF THE ACTUAL
UI**

SAIKU+SSP



SSP Reports

Reports and Forms

Select a report: Current Caseload Statuses Report

Current Caseload Statuses Report

Home Department: Not Used

Student Type:

- Not Used
- CAP
- EAL
- ILP

Service Reason:

- Not Used
- Service Reason 1
- Service Reason 1
- Test Service Reason

Special Service Groups:

- Not Used
- Group 1
- Group 2
- Test Service Group

Output Type: pdf
csv

submit

Report Date: May-30-2013 10:24PM

Home Department: Not Used

Student Type: Not Used

Special Service: Not Used

Service Reasons: Not Used

Case Load

FIRST	LAST	DEPARTMENT	TOTAL COUNT	ACTIVE COUNT	A	IA	T	NP	NS
Amy	Administrator	Not Available Yet	3	3	3	0	0	0	0
Andrew	Advisor	Not Available Yet	4	4	4	0	0	0	0
Thomas	Davis	Not Available Yet	1	1	1	0	0	0	0
Chris	Garcia	Not Available Yet	64	52	52	3	3	3	3
David	Martin	Not Available Yet	2	2	2	0	0	0	0
Paul	Spaude	Not Available Yet	1	1	1	0	0	0	0
Margaret	Taylor	Not Available Yet	14	2	2	3	3	3	3
Richard	Thompson	Not Available Yet	41	6	6	9	9	9	8
Richard	Wilson	Not Available Yet	28	4	4	5	6	6	7
Dylan	Wolfe	Not Available Yet	4	3	3	0	0	1	0
TOTAL:			162	78	78	20	21	22	21

SO IT'S AN ANALYTIC
REPORT

BUT THE UI EMPHASIS
IS ON FILTERING
RATHER THAN
DIMENSIONING

... I.E. WHERE RATHER
THAN GROUP BY



SSP Reports

Reports and Forms

Select a report: Current Caseload Statuses Report

Current Caseload Statuses Report

Home Department: Not Used

Student Type:

- Not Used
- CAP
- EAL
- ILP

Service Reason:

- Not Used
- Service Reason 1
- Service Reason 1
- Test Service Reason

Special Service Groups:

- Not Used
- Group 1
- Group 2
- Test Service Group

Output Type: pdf
csv

submit

**DO SUPPORT CSV AND
PDF...**

BUT AGAIN...
NOBODY'S REALLY
HAPPY WITH IT

EACH REPORT DESIGN
AND IMPLEMENTATION
ALWAYS ONE-OFF

AND JASPER ISN'T
REALLY HELPING
WITH MUCH

CERTAINLY DOESN'T
HELP DEPLOYER
EXPLORE DATA ON
THEIR OWN

BUT SSP IS ALL
ABOUT MAKING
PREVIOUSLY INVISIBLE
DATA VISIBLE

WE WON'T EVER BE
ABLE TO HANDLE
ALL POSSIBLE
REPORTS OOTB

BUT
DIMENSIONALIZING
OPENS UP NEW
POSSIBILITIES

SUPPOSE WE LOAD
CURRENT STUDENT
RECORDS INTO A FACT
TABLE

(A REAL STAR
PROBABLY WOULDN'T
LOOK LIKE THIS)

pgAdmin III

The screenshot shows the pgAdmin III interface. The left pane is the Object browser, displaying a tree structure of database objects under the 'ssp-reports' schema. The 'current_student_fact' table is selected, highlighted with a blue bar at the bottom of the tree. The right pane shows the 'Properties' tab of the properties dialog, which includes tabs for Properties, Statistics, Dependencies, and Dependents. The 'Properties' tab displays a table with a single row for the 'Name' property, set to 'current_student_fact'. Below the properties table is a large text area containing the SQL code for creating and managing the 'current_student_fact' table.

Property	Value
Name	current_student_fact

```
-- Table: current_student_fact
-- DROP TABLE current_student_fact;

CREATE TABLE current_student_fact
(
    student_id integer NOT NULL,
    coach_id integer NOT NULL,
    program_status_id integer NOT NULL,
    cnt integer NOT NULL DEFAULT 1,
    CONSTRAINT pk_current_student_fact PRIMARY KEY (student_id )
)
WITH (
    OIDS=FALSE
);
ALTER TABLE current_student_fact
    OWNER TO sspadmin;
GRANT ALL ON TABLE current_student_fact TO sspadmin;
```

THEN EXPLAIN THE
ROLAP MAPPINGS TO
MONDRIAN

NO NEED TO EDIT
SCHEMA METADATA BY
HAND

MODRIAN SCHEMA

WORKBENCH

Schema Workbench

File Edit View Options Windows Help

Schema - New Schema2 (ssp-reports-schema.xml)*

Table for 'Current Caseload' Cube

Attribute	Value
schema	public
name	current_student_fact
alias	

Attribute Editor

Schema

- Current Caseload
 - Table: current_student_fact
 - Student
 - Student
 - Student
 - Student
 - Table: student
 - Coach
 - Coach
 - Coach
 - Table: coach
 - Program Status
 - Program Status
 - Program Status
 - Table: program
 - Count

Database - ssp-reports (PostgreSQL)

Schema Workbench

File Edit View Options Windows Help

Schema – New Schema2 (ssp-reports-schema.xml)

Dimension for 'Current Caseload' Cube

Attribute	Value
name	Program Status
description	
foreignKey	program_status_id
type	StandardDimension
usagePrefix	
caption	
visible	<input checked="" type="checkbox"/>

Schema

Current Caseload

- Table: current_studen
- Student
- Coach
- Program Status**
- Program Status
- Count

Database – ssp-reports (PostgreSQL)

Schema Workbench

File Edit View Options Windows Help

Schema - New Schema2 (ssp-reports-schema.xml)*

Level for 'Program Status' Hierarchy

Attribute	Value
name	Program Status
description	
table	program_status
column	id
nameColumn	display_name
parentColumn	
nullParentValue	
ordinalColumn	display_name
type	Integer
internalType	
uniqueMembers	<input checked="" type="checkbox"/>
levelType	Regular
hideMemberIf	Never
approxRowCount	
caption	
captionColumn	
formatter	
visible	<input checked="" type="checkbox"/>

Schema

- Current Caseload
 - Table: current_student_fact
- Student
 - Student
 - Student
 - Table: student
- Coach
 - Coach
 - Coach
 - Table: coach
- Program Status
 - Program Status
 - Program Status
 - Table: program_status
- Count

Database - ssp-reports (PostgreSQL)

Schema Workbench

File Edit View Options Windows Help

Schema – New Schema2 (ssp-reports-schema.xml)*

Measure for 'Current Caseload' Cube

Attribute	Value
name	Count
description	
aggregator	sum
column	cnt
formatString	
datatype	Integer
formatter	
caption	
visible	<input checked="" type="checkbox"/>

Schema

- Current Caseload
 - Table: current_student_fact
- Student
 - Student
 - Table: student
- Coach
 - Coach
 - Table: coach
- Program Status
 - Program Status
 - Table: program_status

Count

Database – ssp-reports (PostgreSQL)

```

<Schema name="New Schema2">
    <Cube name="Current Caseload" visible="true" cache="true" enabled="true">
        <Table name="current_student_fact" schema="public">
        </Table>
        <Dimension type="StandardDimension" visible="true" foreignKey="student_id" highCardinality="false" name="Student">
            <Hierarchy name="Student" visible="true" hasAll="true" allMemberName="All Students" primaryKey="id">
                <Table name="student" schema="public">
                </Table>
                <Level name="Student" visible="true" table="student" column="id" nameColumn="full_name" ordinalColumn="full_name" type="Integer" uniqueMembers="true" levelType="Regular" hideMemberIf="Never">
                </Level>
            </Hierarchy>
        </Dimension>
        <Dimension type="StandardDimension" visible="true" foreignKey="coach_id" highCardinality="false" name="Coach">
            <Hierarchy name="Coach" visible="true" hasAll="true" allMemberName="All Coaches" primaryKey="id">
                <Table name="coach" schema="public">
                </Table>
                <Level name="Coach" visible="true" table="coach" column="id" nameColumn="full_name" ordinalColumn="full_name" type="Integer" uniqueMembers="true" levelType="Regular" hideMemberIf="Never">
                </Level>
            </Hierarchy>
        </Dimension>
        <Dimension type="StandardDimension" visible="true" foreignKey="program_status_id" highCardinality="false" name="Program Status">
            <Hierarchy name="Program Status" visible="true" hasAll="true" allMemberName="All Program Statuses">
                <Table name="program_status" schema="public">
                </Table>
                <Level name="Program Status" visible="true" table="program_status" column="id" nameColumn="display_name" ordinalColumn="display_name" type="Integer" uniqueMembers="true" levelType="Regular" hideMemberIf="Never">
                </Level>
            </Hierarchy>
        </Dimension>
        <Measure name="Count" column="cnt" datatype="Integer" aggregator="sum" visible="true">
        </Measure>
    </Cube>
</Schema>

```

POINT SAIKU AT IT

type=OLAP

name=ssp-reports

driver=mondrian.olap4j.MondrianOlap4jDriver

location=jdbc:mondrian:Jdbc=jdbc:**postgresql://localhost:5432/ssp-reports**;Catalog=**file:/path/to/ssp-reports-schema.xml**;JdbcDrivers=**org.postgresql.Driver**;

username=sspadmin

password=sspadmin

localhost:8080

Holly (17) Read Later in pinboard Add To pinboard.in Pinboard: bookmark Java SE 6 Document Groovy JDK Confluence – Unicon

SAIKU

Unsaved query (1)

Cubes

Current Caseload

Dimensions

- Coach
 - (All)
 - Coach
- Program Status
 - (All)
 - Program Status
- Student
 - (A Student)
 - Student

Measures

- Measures
 - Count

Columns

Rows

Filter

The screenshot shows the SAIKU BI tool interface. On the left, there's a sidebar with sections for Cubes, Dimensions, and Measures. Under Dimensions, there are three categories: Coach, Program Status, and Student. The 'Student' category has a sub-item '(A Student)' which is highlighted with a yellow box. Under Measures, there is one item: 'Count'. The main area of the interface is a query builder with tabs for Columns, Rows, and Filter. Above the query builder is a toolbar with various icons for data operations like refresh, export, and search. The top navigation bar shows the URL 'localhost:8080' and several pinned bookmarks.

REMEMBER WHAT
WE'RE AFTER

Report Date: May-30-2013 10:24PM

Home Department: Not Used

Student Type: Not Used

Special Service: Not Used

Service Reasons: Not Used

Case Load

FIRST	LAST	DEPARTMENT	TOTAL COUNT	ACTIVE COUNT	A	IA	T	NP	NS
Amy	Administrator	Not Available Yet	3	3	3	0	0	0	0
Andrew	Advisor	Not Available Yet	4	4	4	0	0	0	0
Thomas	Davis	Not Available Yet	1	1	1	0	0	0	0
Chris	Garcia	Not Available Yet	64	52	52	3	3	3	3
David	Martin	Not Available Yet	2	2	2	0	0	0	0
Paul	Spaude	Not Available Yet	1	1	1	0	0	0	0
Margaret	Taylor	Not Available Yet	14	2	2	3	3	3	3
Richard	Thompson	Not Available Yet	41	6	6	9	9	9	8
Richard	Wilson	Not Available Yet	28	4	4	5	6	6	7
Dylan	Wolfe	Not Available Yet	4	3	3	0	0	1	0
TOTAL:			162	78	78	20	21	22	21

STUDENT COUNTS BY STATUS AND COACH

localhost:8080

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SAIKU

Unsaved query (1)

Cubes Current Caseload

Dimensions

- Coach
 - (All)
 - Coach
- Program Status
 - (All)
 - Program Status
- Student
 - (All)
 - Student

Measures

- Measures
 - Count

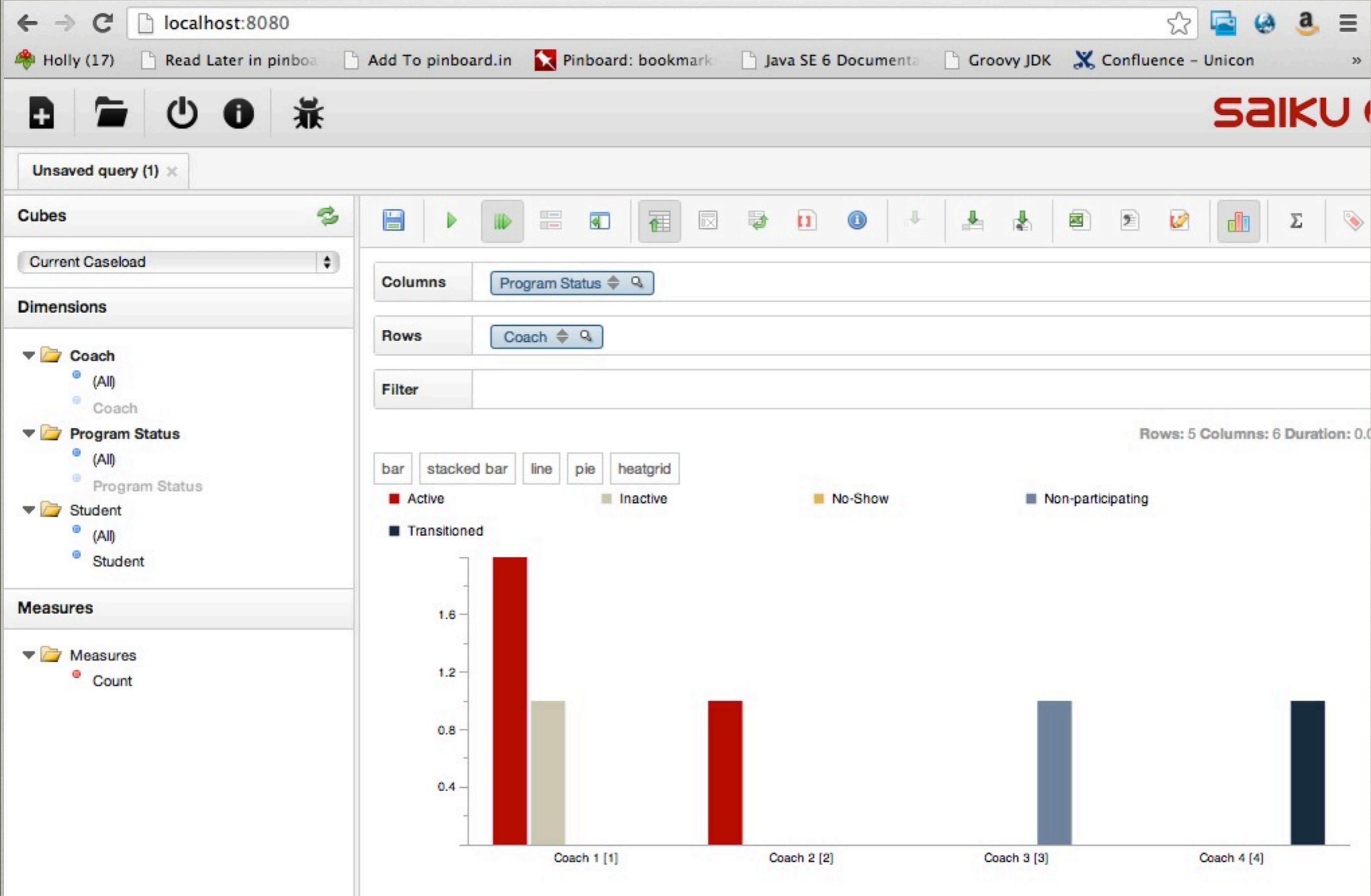
Columns Program Status

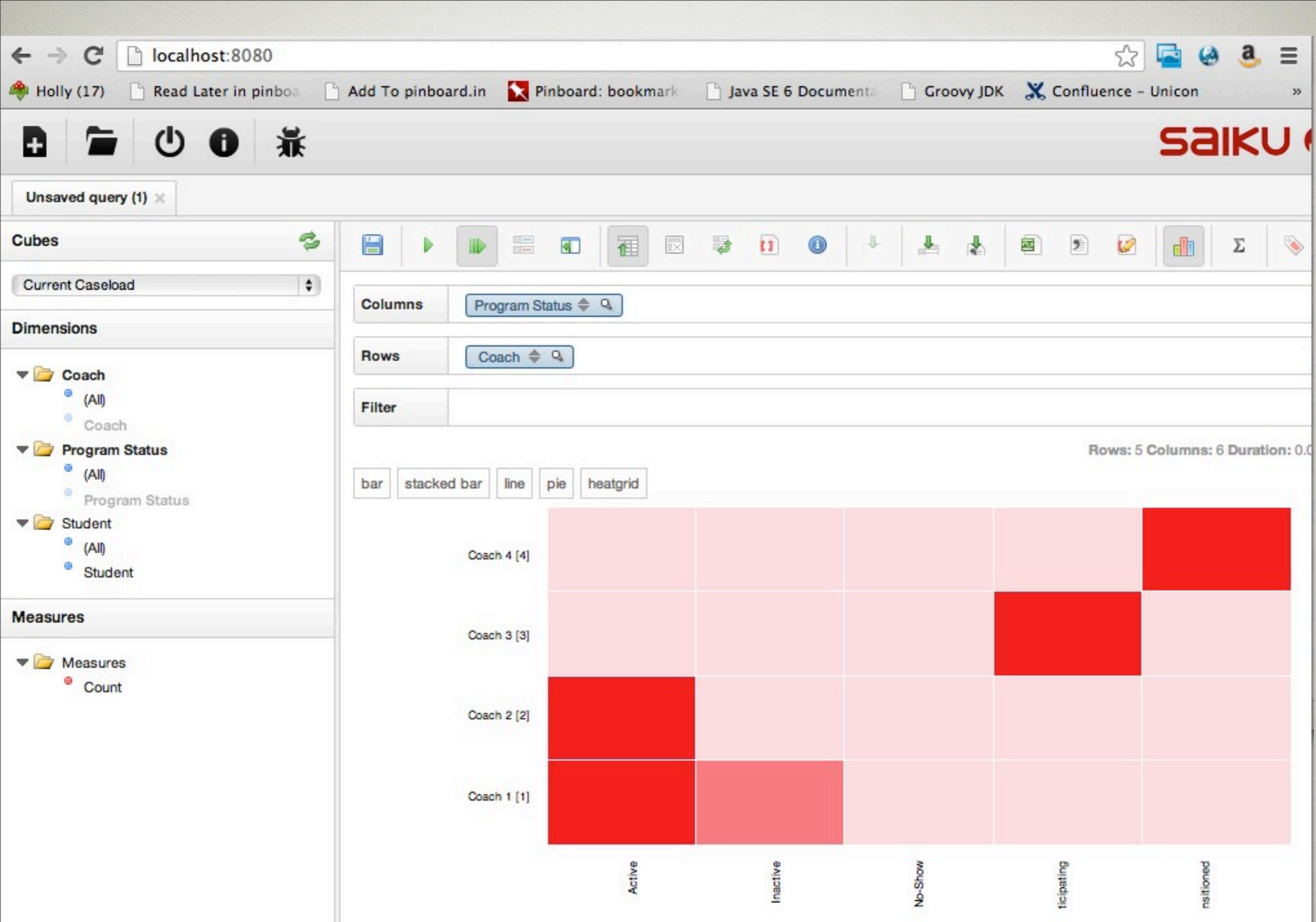
Rows Coach

Filter

Rows: 5 Columns: 6 Duration: 0.1s

Coach	Active	Inactive	No-Show	Non-participating	Transitioned
Coach 1	2	1			
Coach 2	1				
Coach 3				1	
Coach 4					1





ROLLUPS...

SEPARATE REPORT
CERTAINLY WORKS

localhost:8080

Holly (17) Read Later in pinboard.in Add To pinboard.in Pinboard: bookmark Java SE 6 Documents Groovy JDK Confluence – Unicon

SAIKU

+

Unsaved query (1) ×

Cubes

Current Caseload

Dimensions

- Coach
 - (All)
 - Coach
- Program Status
 - (All)
 - Program Status
- Student
 - (All)
 - Student

Measures

- Measures
 - Count

Columns Program Status

Rows Count

Filter

Rows: 2 Columns: 6 Duration: 0.0

MeasuresLevel	Active	Inactive	No-Show	Non-participating	Transitioned
Count	3	1		1	1

BUT SHOULD GET IT
FOR FREE

**SAIKU ROLLUP
RENDERING
SOMETIMES BUGGY**

localhost:8080

Holly (17) Read Later in pinboard.in Add To pinboard.in Pinboard: bookmark Java SE 6 Documentation Groovy JDK Confluence – Unicon

SAIKU

students-for-coach-1 × Unsaved query (2) ×

Cubes

Current Caseload

Dimensions

- Coach
 - (All)
 - Coach
- Program Status
 - (All)
 - Program Status
- Student

Measures

- Measures
 - Count

Columns Count

Rows (All) Program Status

Filter

Rows: 8 Columns: 3 Duration: 00:00:00.000

(All)	Program Status	Count
All Program Statuses		6
		6
	Active	3
	Inactive	1
	No-Show	
	Non-participating	1
	Transitioned	1

localhost:8080

Holly (17) Read Later in pinboard.in Add To pinboard.in Pinboard: bookmark Java SE 6 Documentation Groovy JDK Confluence – Unicon

SAIKU

Unsaved query (1)

Cubes Current Caseload

Dimensions

- Coach
 - (All)
 - Coach
- Program Status
 - (All)
 - Program Status
- Student

Measures

- Measures
 - Count

Columns (All) Program Status

Rows (All) Coach

Filter

Rows: 7 Columns: 8 Duration: 0.0

		All Program Statuses		null			
(All)	Coach			Active	Inactive	Non-participating	Transitioned
All Coaches		6	6	3	1	1	1
Coach 1		3	3	2	1		
Coach 2		1	1	1			
Coach 3		1	1			1	
Coach 4		1	1				1

localhost:8080

Holly (17) Read Later in pinboard.in Add To pinboard.in Pinboard: bookmark Java SE 6 Documents Groovy JDK Confluence – Unicon

SAIKU

students-for-coach-1 ✎ Unsaved query (2) ✎

Cubes Current Caseload

Dimensions

Coach (All) Coach

Program Status (All) Program Status

Student

Measures

Measures Count

Columns Program Status

Rows (All) Coach

Filter

Rows: 6 Columns: 7 Duration:

(All)	Coach	Active	Inactive	No-Show	Non-participating	Transitioned
All Coaches		3	1		1	1
	Coach 1	2	1			
	Coach 2	1				
	Coach 3				1	
	Coach 4					1

AND WE GET QUASI AD-
HOC QUERIES FOR
FREE

... E.G. “ALL
STUDENTS FOR A
COACH”

DRILL-DOWN SORT OF WORKS

A screenshot of a software application window. At the top is a dark grey header bar with five icons: a plus sign (+), a folder, a power button, an information icon (i), and a bug icon. Below the header is a vertical sidebar on the left containing several items: "Uns", "Cube", "Curr", "Dime", a folder icon with a downward arrow, two folder icons with right-pointing arrows, and "Meas". The main area of the window contains a table with three rows and two columns. The columns are labeled "Student (Key)" and "Coach (Key)". The data in the table is as follows:

	Student (Key)	Coach (Key)
Cube	1	1
	2	1
	3	1

LITTLE BETTER
DROPPING DOWN TO
MDX

localhost:8080

Holly (17) Read Later in pinboa Add To pinboard.in Pinboard: bookmark Java SE 6 Documenta Groovy JDK Confluence – Unicon

SAIKU

Unsaved query (1) ×

Cubes

Current Caseload

Dimensions

Coach
 • (All)
 • Coach

Program Status

Student
 • (All)
 • Student

Measures

Measures
 • Count

SELECT
NON EMPTY {Hierarchize({
 Filter([Coach].[Coach].Members,
 [Coach].[Coach].currentmember.name = 'Coach 1'
 })}
})} ON COLUMNS,
NON EMPTY {Hierarchize({[Student].[Student].Members})} ON ROWS
FROM [Current Caseload]

Rows: 4 Columns: 2 Duration:

Student	Coach 1
Student 1	1
Student 2	1
Student 3	1

BUT BACK TO FILTERS
VS DIMENSIONS...



SSP Reports

Reports and Forms

Select a report: Current Caseload Statuses Report

Current Caseload Statuses Report

Home Department: Not Used

Student Type:
Not Used
CAP
EAL
ILP

Service Reason:
Not Used
Service Reason 1
Service Reason 1
Test Service Reason

Special Service Groups:
Not Used
Group 1
Group 2
Test Service Group

Output Type: pdf
csv

submit

OOPS. N-MANY REPORT
EXECUTIONS TO GET
CASELOAD LEVELS PER
“SERVICE REASON”

MAKE THAT A
DIMENSION AND IT'S
JUST ONE

THINK OF A NEW
DIMENSION?

MIGHT HAVE TO ADD IT
TO YOUR ETL

BUT NO MORE ONE-
OFF HIBERNATE
QUERIES

AND (THEORETICALLY)
NO PATCHES TO SSP
ITSELF

WHAT ABOUT JASPER?

ACTUALLY USES
MONDRIAN UNDER THE
COVERS

FOR SAIKU-LIKE
FEATURES YOU NEED
JASPERREPORTS
SERVER

WHICH ALSO GETS YOU
NICE THINGS LIKE
REPORT SCHEDULING

BUT COMMUNITY/
COMMERCIAL
DISTINCTION CAN BE
FRAUGHT

OOPS... NO AD HOC
REPORT AUTHORING IN
COMMUNITY EDITION

JASPERREPORTS
LIBRARY IS LGPLv3

BUT SERVER IS
AGPLv3

PENTaho's MODEL AND FEATURE SET QUITE SIMILAR

LICENSING IS MORE
COMPLICATED

**SHIPPING THE ENTIRE
BI PLATFORM WOULD
BE A NON-STARTER
(GPL)**

INDIVIDUAL
COMPONENTS
GENERALLY OK

SO BACK TO THE
ORIGINAL QUESTION...

WHAT DO I THINK
DISTINGUISHERS A
REPORT?

NOTHING REALLY

REPORTS ARE JUST
HIGH ALTITUDE APP
FEATURES

AND OFTEN LESS
OPINIONATED

HIGH ALTITUDE?

1. META

THERE'S THE “STUFF”
YOU DO DAY TO DAY...

...THE “STUFF” THE
APP IS REALLY MEANT
TO Do

COMITS...

EMAIL...

EARLY ALERTS...

JOURNAL ENTRIES...

TIMESHEETS

THEN THERE'S THE
META-STUFF

THE STUFF ABOUT
THE STUFF

This repository Search or type a command Explore Gist Blog Help dmccallum PUBLIC Jasig / SSP Pull Request Unwatch Star Fork 1 Code Network Pull Requests 0 Issues 0 Wiki Graphs Settings branch: master Files Commits Branches 16 Tags 9

Jun 03, 2013

SSP-1269 Minor tweak of MAP rendering to follow Sencha performance best ... 97cb1b5827 + Browse code → tbain authored an hour ago

SSP-1301 changed from static constant to static method, new ... 81dd35e972 + Browse code → jstanley70 authored 3 hours ago

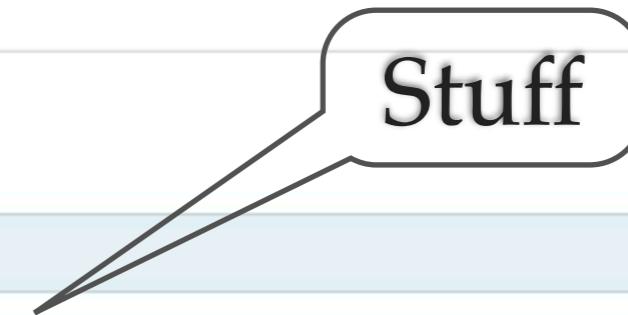
SSP-943 Changed to copy drag-drop, remove previous if valid and ... ece1e14ce2 + Browse code → jstanley70 authored 3 hours ago

SSP-1304 minor formatting issue and bug in formattedModifiedDate fixed b0d56c3329 + Browse code → jstanley70 authored 4 hours ago

SSP-1297 Fixed isPastTerm so that currentTerm is no longer marked as ... 6362d7699c + Browse code → jstanley70 authored 5 hours ago

NOJIRA removing trailing commas 87d29f416b + Browse code → aarland authored 2 hours ago

SSP-1296 - Cannot edit current and future terms in a template 2e977f5aad +



Stuff

This repository Search or type a command Explore Gist Blog Help dmccallum + X E

PUBLIC Jasig / SSP Pull Request Unwatch Star 8 Fork 1

Code Network Pull Requests 0 Issues 0 Wiki Graphs Settings

branch: master Files Commits Branches 16 Tags 9

SSP-1269 Minor tweak of MAP rendering to follow Sencha performance best practices Browse code

master

tbain authored an hour ago 1 parent 81dd35e commit 97cb1b58276396ad7d2144447007c3e0a60da5cf

Showing 1 changed file with 7 additions and 3 deletions. Show Diff Stats

10 src/main/webapp/app/controller/tool/map/SemesterPanelContainerViewController.js View file @ 97cb1b5

```
... ... @@ -308,13 +308,17 @@ Ext.define('Ssp.controller.tool.map.SemesterPanelContainerViewController', {  
308 308     termSet.forEach(function(term){  
309 309         var termCode = term.get('code');  
310 310         var panelName = term.get("name");  
311 -         yearView.add(me.createSemesterPanel(panelName, termCode, me.semesterStores[termCode]));  
312 -         semesterPanels.push(me.createSemesterPanel(panelName, termCode, me.semesterStores[termCode]));  
311 +         var isPast = me.termsStore.isPastTerm(termCode);  
312 +         semesterPanels.push(me.createSemesterPanel(panelName, termCode, me.semesterStores[termCode]));  
313 313     });  
314 314     yearView.add(semesterPanels);  
315 315     yearViews.push(yearView);  
316 316 };
```

Stuff



This repository

Search or type a command



Explore

Gist

Blog

Help



dmccallum



PUBLIC



Jasig / SSP

Pull Request

Unwatch

Star

8

Fork

1



Code

Network

Pull Requests

0

Issues

0

Wiki

Graphs

Settings

January 28th 2012 - June 1st 2013

Commits to master, excluding merge commits

Stuff

Contribution Type: Commits

Filter & sort contributions

Additions

Deletions

 Commits

danielbhower

578 commits / 178,034 ++ / 120,482 --

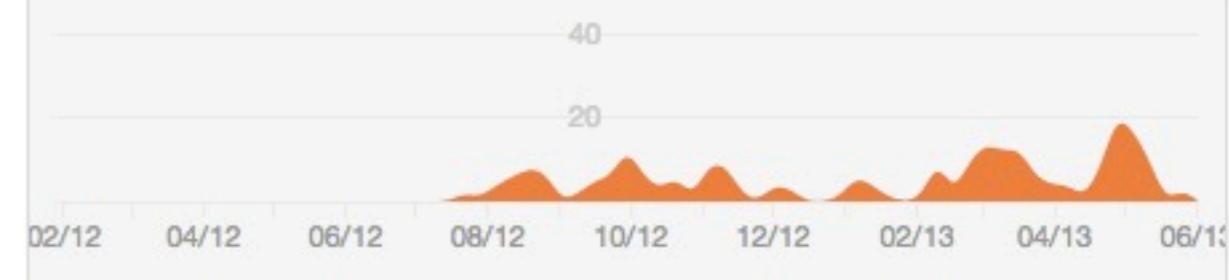
#1



dmccallum

245 commits / 69,723 ++ / 43,309 --

#2



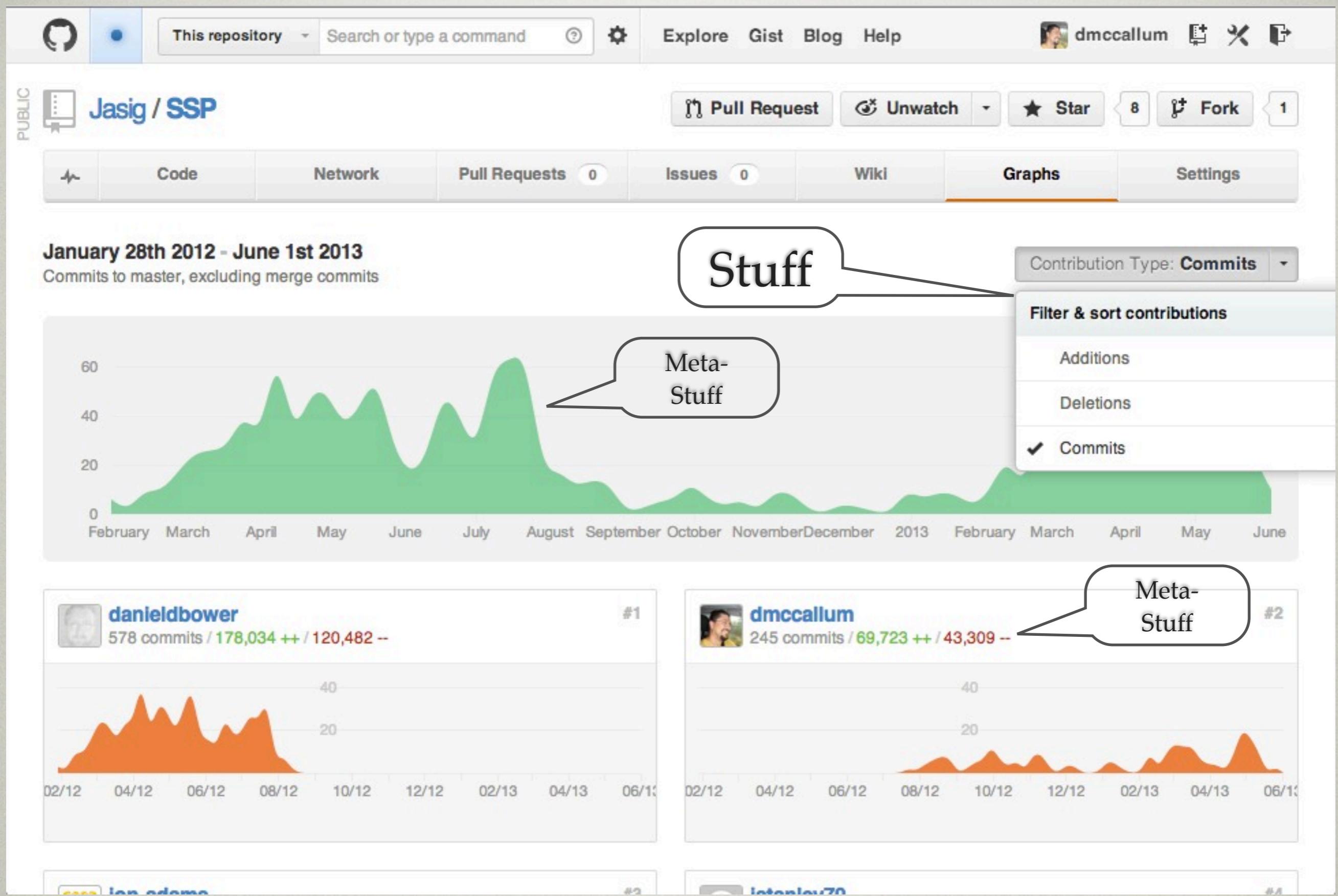
ion edwards

#3



Interplay70

#4



2. NOVEL

UNEXPECTED DRILL- DOWNS

MASHABLE DATA

» Student: Lucia_Foo_Bar Miller - ID#: lmiller

Coach: Russ Little

[Coaching History](#)

[Edit](#)

Students

Tools

Main Intake

Action Plan

Journal

Early Alert

MAP

Accommodation

Config Link

Program Viewer

MAP Help

Action Plan

Display only tasks that I created

	Tasks	Goals	Strengths
<input type="radio"/> Active	<input type="radio"/> Complete	<input type="radio"/> All	

Add

<input type="checkbox"/>	Action	Description	Due Date

Child or Adult Care

			FAMILY SERVICES FAMILY SERVICES: Contact Pat Davis at Family Services Association 222-9481 for parenting education program. Parenting 101 Classes are offered throughout the year. Sliding fee scale will establish the fee and scholarships may be available.	04/23/2013 ACTIVE EVERYONE RUSS LITTLE
			MONTGOMERY COUNTY CHILD SUPPORT ENFORCEMENT AGENCY Contact Montgomery County Child Support Enforcement Agency for enforcement of child support orders 225-4600 www.mcsea.org.	04/29/2013 ACTIVE EVERYONE RUSS LITTLE

UNKNOWN

			STUDENT INTAKE Your advisor has requested you fill out the Student Intake Form	ACTIVE EVERYONE RUSS LITTLE
			STUDENT INTAKE Your advisor has requested you fill out the Student Intake Form	ACTIVE EVERYONE RUSS LITTLE
			STUDENT INTAKE Your advisor has requested you fill out the Student Intake Form	ACTIVE EVERYONE RUSS LITTLE
			STUDENT INTAKE Your advisor has requested you fill out the Student Intake Form	ACTIVE EVERYONE RUSS LITTLE

A	B	C	D	E	F	G	H	I
1	student first name	student last name	student_id	plan_effective_date	due_date	completed_date	task_challenge	task_challenge_referral
2	Barbara	Taylor	btaylor30	GOAL			N/A	N/A
3	Barbara	Taylor	btaylor30	TASK			NONE	N/A
4	Barbara	Thompson	bthompson315	GOAL			N/A	NONE
5	Barbara	Thompson	bthompson315	TASK	2012-08-20	2012-08-20 00:00:00	Motivation/Attitude	FAFSA & Student Guide - Spanish
6	Barbara	Thompson	bthompson315	TASK	2012-08-20	2012-08-20 00:00:00	Motivation/Attitude	FAFSA & Student Guide - Spanish
7	Barbara	Thompson	bthompson315	TASK	2012-08-20	2012-08-20 00:00:00	Motivation/Attitude	FAFSA & Student Guide - Spanish
8	Barbara	Thompson	bthompson315	TASK	2012-08-20	2012-08-20 00:00:00	Motivation/Attitude	FAFSA & Student Guide - Spanish
9	Barbara	Thompson	bthompson315	TASK	2012-08-20	2012-08-20 00:00:00	Motivation/Attitude	FAFSA & Student Guide - Spanish
10	Charles	Harris	charris223	GOAL			N/A	N/A
11	Charles	Harris	charris223	TASK	2012-08-20	2012-08-20 00:00:00	English as a Second Language	COPE Workshop
12	Charles	Harris	charris223	TASK	2012-08-20	2012-08-20 00:00:00	English as a Second Language	COPE Workshop
13	Charles	Harris	charris223	TASK	2012-08-20	2012-08-20 00:00:00	English as a Second Language	COPE Workshop
14	Charles	Jackson	cjackson52	GOAL			N/A	N/A
15	Charles	Jackson	cjackson52	TASK	2012-08-20	2012-08-20 00:00:00	Grief and Loss	\$Instructor
16	Charles	Jackson	cjackson52	TASK	2012-08-20	2012-08-20 00:00:00	Grief and Loss	\$Instructor
17	Charles	Simth	csimth29	GOAL			N/A	N/A
18	Charles	Simth	csimth29	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
19	Charles	Simth	csimth29	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
20	Charles	Simth	csimth29	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
21	Charles	Simth	csimth29	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
22	Charles	Simth	csimth29	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
23	Charles	Simth	csimth29	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
24	Charles	Simth	csimth29	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
25	Charles	Simth	csimth29	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
26	Charles	Simth	csimth29	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
27	Charles	Wilson	cwilson59	GOAL			N/A	N/A
28	Charles	Wilson	cwilson21	GOAL			N/A	N/A
29	Charles	Wilson	cwilson21	TASK	2012-08-20	2012-08-20 00:00:00	Goals/Career Choices (Unclear)	Holistic Counseling - Intellectual
30	Charles	Wilson	cwilson59	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
31	Charles	Wilson	cwilson59	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
32	Charles	Wilson	cwilson59	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
33	Charles	Wilson	cwilson59	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
34	Charles	Wilson	cwilson59	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
35	Charles	Wilson	cwilson59	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
36	Charles	Wilson	cwilson59	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
37	Charles	Wilson	cwilson59	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
38	Charles	Wilson	cwilson59	TASK	2012-08-20	2012-08-20 00:00:00	Physical Health	Classes
39	Chris	Harris	charris317	GOAL			N/A	N/A
40	Chris	Harris	charris317	TASK	2012-08-20	2012-08-20 00:00:00	Study Resources	Financial Aid Deadlines
41	Chris	Harris	charris317	TASK	2012-08-20	2012-08-20 00:00:00	Study Resources	Financial Aid Deadlines
42	Chris	Harris	charris317	TASK	2012-08-20	2012-08-20 00:00:00	Study Resources	Financial Aid Deadlines
43	Chris	Harris	charris317	TASK	2012-08-20	2012-08-20 00:00:00	Study Resources	Financial Aid Deadlines
44	Chris	Harris	charris317	TASK	2012-08-20	2012-08-20 00:00:00	Study Resources	Financial Aid Deadlines
45	Chris	Harris	charris317	TASK	2012-08-20	2012-08-20 00:00:00	Study Resources	Financial Aid Deadlines
46	Chris	Harris	charris317	TASK	2012-08-20	2012-08-20 00:00:00	Study Resources	Financial Aid Deadlines
47	Chris	Miller	cmiller114	GOAL			N/A	N/A
48	Chris	Miller	cmiller114	TASK	2012-08-20	2012-08-20 00:00:00	Maps/Directions	Payment
49	Chris	Miller	cmiller114	TASK	2012-08-20	2012-08-20 00:00:00	Maps/Directions	Payment
50	Chris	Miller	cmiller114	TASK	2012-08-20	2012-08-20 00:00:00	Maps/Directions	Payment
51	Chris	Miller	cmiller114	TASK	2012-08-20	2012-08-20 00:00:00	Maps/Directions	Payment
52	Chris	Simth	csimth335	GOAL			N/A	N/A
53	Chris	Simth	csimth335	TASK	2012-08-20	2012-08-20 00:00:00	Undecided Major or Career Field	Substance Abuse Treatment
54	Chris	Simth	csimth335	TASK	2012-08-20	2012-08-20 00:00:00	Undecided Major or Career Field	Substance Abuse Treatment

ALTITUDE DOESN'T
NECESSARILY REQUIRE
A DIFFERENT STACK

BUT OLTP ISN'T
GREAT AT...

NOVEL VIEWS/ RELATIONSHIPS

...NOR PRESERVING
HISTORICAL DATA

BUT YOU CAN GET A
LONG (LONG) WAY

SSP SHOULD
PROBABLY TAKE THE
OLAP PLUNGE

AT LEAST FOR
ANALYTIC REPORTS

MAKES LESS SENSE
FOR OPERATIONAL
REPORTS

AND SAIKU-AD-HOC
STILL REQUIRES A
FULL PENTaho
INSTALL

The figure shows a screenshot of the Saiku Reporting 1.0 interface. At the top, there is a toolbar with various icons for file operations like New, Open, Save, Print, and Export. To the right of the toolbar are settings for 'Row Limit' (set to 'NONE'), 'Disable Distinct' (unchecked), and a 'Columns' section containing dropdown menus for 'Order Number', 'Status', 'Quantity Ordered', and 'Total'. Below the columns are sections for 'Groups' and 'Filters', both currently empty. The main area features a header with the 'ambient Business Intelligence' logo and the date 'June 11, 2012 @ 11:20'. A title bar reads 'Saiku Reporting 1.0 Released'. The main content is a data table with four columns: 'Order Number', 'Status', 'Quantity Ordered', and 'Total'. The data rows are as follows:

Order Number	Status	Quantity Ordered	Total
10,123	Shipped	156	16,560.3
10,298	Shipped	71	5,307.98
10,345	Shipped	43	2,311.68
10,124	Shipped	448	33,847.62
10,278	Shipped	318	34,453.85
10,346	Shipped	163	14,449.61
10,120	Shipped	525	50,397.66
10,125	Shipped	66	9,738.18
10,223	Shipped	497	49,637.57
10,342	Shipped	420	43,779.09
10,347	Shipped	418	47,442.91
10,275	Shipped	601	56,002.9
10,315	Shipped	244	20,719.91
10,375	Shipped	560	59,617.44
10,425	In Process	427	43,784.69
10,103	Shipped	541	54,702
10,158	Shipped	22	1,474.66
10,309	Shipped	190	19,769.68
10,325	Shipped	329	40,652.85
10,113	Shipped	143	12,398.56

<http://themagicaltrout.files.wordpress.com/2012/06/screen-shot-2012-06-11-at-10-20-54.png>

BUT OLAP WILL BE
ENOUGH TO CHEW ON
FOR A WHILE...

...CUBE DESIGN...

...EVENT CAPTURE
AND ETL...

...OFFLINE
DELIVERY?...

...PRINTABILITY...

...AUTHN/AUTHZ...

...SIMPLE/ADVANCED
UX FLAVORS...

BUT ONCE WE GET ALL
THAT SORTED OUT...

BE PREPARED FOR
USER GLEE



http://www.gregthompson.org/images/stock_photos/weirdguy.jpg

dmccallum@unicon.net