MIS 0855 Spring 2015 – Data Science Day 29 – Integrating Data

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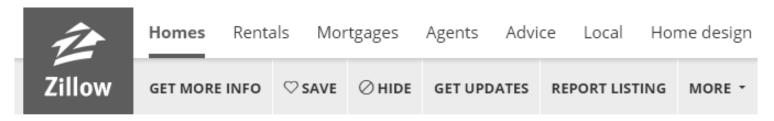


Where to Find Data

- If you're buying a house, what data do you need to make a decision?
- How many different data sources would you need?



http://www.moneyunder30.com/how-to-find-a-good-realtor



Pennsylvania · Philadelphia · Center City West · 237 S 18th St Philadelphia PA 19103 · APT 8A



237 S 18th St APT 8A, Philadelphia, PA 19103

2 beds · 2 baths · 2,210 sqft

• FOR SALE \$2,200,000 Zestimate®: \$1,113,755

EST. MORTGAGE

Min-Seok Pang - Mar.27.2015



Price History

DATE	EVENT	PRICE	\$/SQFT	SOURCE	
12/20/14	Listed for sale	\$2,200,000 +746%	\$995	Berkshire Hath	•
01/28/93	Sold	\$260,000	\$117	Public Record	•

Tax History

Find assessor information on the county website

YEAR	PROPERTY TAXES	CHANGE	TAX ASSESSMENT	CHANGE
2014	\$13,837	+130%	\$1,032,600	+1,580%
2013	\$6,006	+3.6%	\$61,472	
2012	\$5,798	+3.9%	\$61,472	

More ∨



Nearby Schools in Philadelphia

SCHOOL RATING		GRADES DISTANCE		
4 out of 10	Greenfield Albert M School (assigned)	K-8	0.5 mi	
out of 10	South Philadelphia High (assigned)	PK, 8-12	1.6 mi	
4 out of 10	Stanton Edwin M School	PK-8	0.5 mi	
More schools in Philadelphia		Data by GreatSchoo	Data by GreatSchools.org ②	



NYPD Crime Center

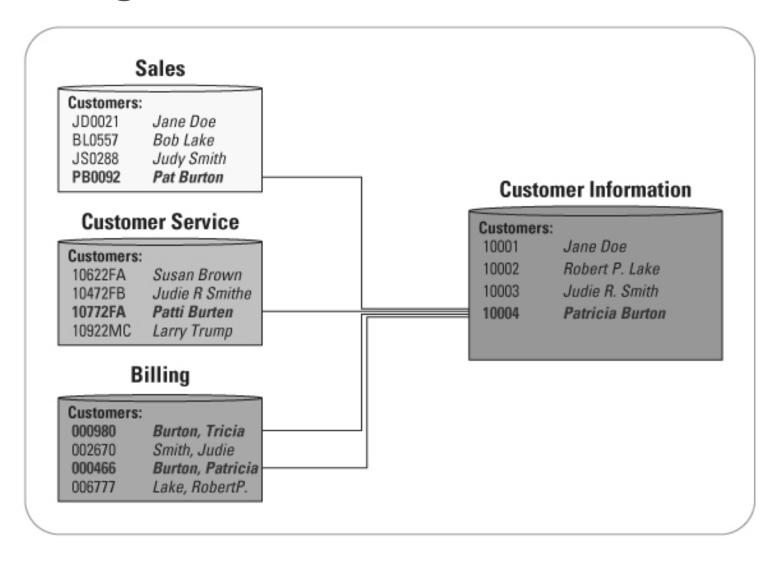
- According to the video, how many different databases is NYPD operating?
- To build "Real-Time Crime Center," they should do what?
 - They need to integrate data from multiple sources.



http://www.nycpolicefoundation.org/programs/real-time-crime-center/

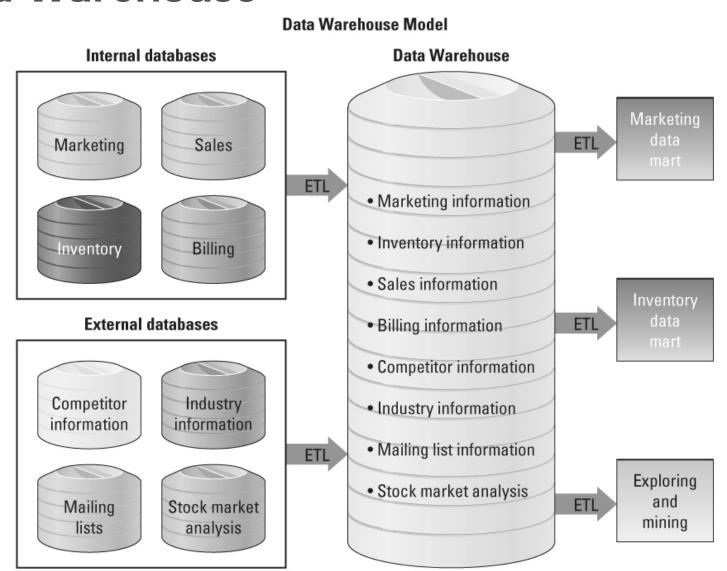


Data Integration





Data Warehouse





ETL – A Key Step in Building Data Warehouse

- Extracts data from internal and external databases
- Transforms the data so that it has common definitions and formats, and
- Loads the transformed data into a data warehouse