

# Jewelry Database

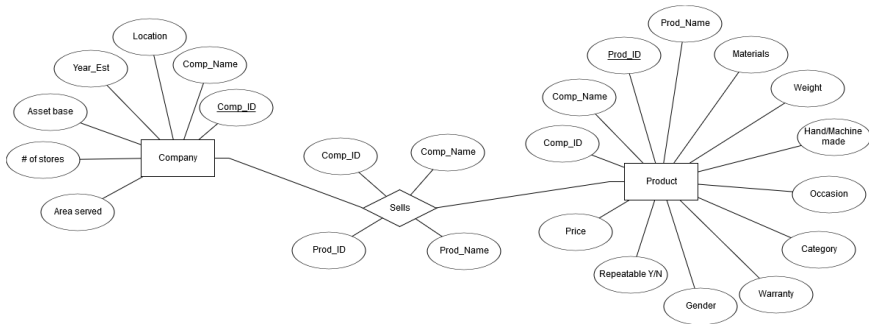
## CS336

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- Python for random data generation.
- MySQL for table creation.
- Eclipse with Java:
  - JavaServer Pages (JSP) for dynamically generated HTML.
  - Bootstrap (front-end framework) for the web interface.
  - Highcharts for interactive JavaScript charts and graphs.
- Amazon Web Services for data storage and web hosting.

# ER diagram



- Jewelry can be anything from a simple watch or plastic hair clip, all the way up to the Crown Jewels.
- There's utilitarian items like silver buttons, decorative items like a bracelet, and even pointless items such as silk anklets.

- Everyone who likes expensive things.
  - Browse to see what's available on the market.
- Personal sellers.
  - Etsy is full of sellers.
- Corporations.
  - Established organizations can upload their products, and use analysis tools to see where they stand versus the competition

- People who want to start or update a jewelry company and need a flexible inventory system.
- People researching available products and companies.
  - Analytics will let users discover patterns, and get a feel for the market.
    - \* Easily view market saturation.
    - \* Discover what different types of materials do to cost.
    - \* Find what occasions currently cost the most.
    - \* Realize what other factors influence price.
    - \* View company statistics.

Easily filter, add, and view all the companies on the DB.

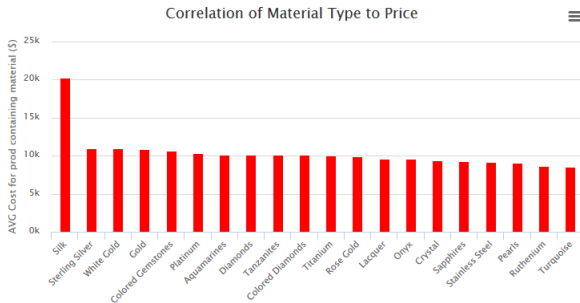
Jewelry DB!	Products	Companies	Analytics				
	Schmidt-Bergnaum and Co		1945	UT	FM	7	695303
	Greenholt-Schneider and Co		1904	PW	RI	21	3765788
	Altenwerth-Tromp		1804	NJ	AR	19	940873
	Strosin PLC		2007	SD	AK	9	313407
	Dibbert LLC Ltd		1962	RI	PA	4	400599
	McCullough and Padberg		1831	AL	Worldwide	119	668859710
	Conn Swaniawski and Kassulke		1918	NJ	NC	10	511289
	AwesomeCo		1999	NJ	NJ	12	12000
	TheBestCo		2001	NY	NY	15	15000
	Cup of water and Sons		1986	DC	TX	5	19001
	Really amazing Co		1800	RI	MI	27	115687
	Sparkling Seltzer Products		1846	CT	FL	32	90000000
	Red Thunder Co		2012	CO	FM	1	10000

Browse, filter, and to all the products.

Jewelry DB! Products Companies Analytics											
Cute Colorful Amulet	Conn Swaniawski and Kassulke	Male	Amulet	21	Baby Shower	Tanzanites	7	No	Handmade	No	6307
Smooth Rough-Cut Complex Locket	Conn Swaniawski and Kassulke	Female	Locket	27	Anniversary	Stainless Steel	5	No	Machine	Yes	9964
Radiant Pierced Circlet	Conn Swaniawski and Kassulke	Female	Circlet	625	Baby Shower	Rose Gold	10	Yes	Handmade	Yes	4067
Textured Hammered Sleek Bracelet	Conn Swaniawski and Kassulke	Female	Bracelet	212	Holiday	Tanzanites	13	Yes	Handmade	Yes	9452
Finely Detailed Smoky Multi-Faceted Amulet	Conn Swaniawski and Kassulke	Female	Amulet	47	Graduation	Stainless Steel	17	No	Machine	Yes	9942
Super Cool Ring	TheBestCo	Female	Ring	4	Birthday	Aquamarines	7	No	Machine	Yes	499
Giant Round Pin	Wuckert Gusikowski and Romaguera	Female	Pin	15	Just Because	Platinum	6	Yes	Handmade	Yes	15000
Bright Yellow Hat	Stamm Group Inc	Female	Circlet	6	Anniversary	Aquamarines	10	Yes	Handmade	Yes	799
Perfect Ring	Stamm Group Inc	Female	Ring	8	Engagement	Diamonds	4	No	Handmade	No	7654
Original Premium Necklace	Green Zieme and Sauer	Female	Necklace	19	Just Because	Gold	13	Yes	Handmade	Yes	499
Pure Spring Water Ring	Red Thunder Co	Female	Ring	5	Anniversary	Sapphires	2	Yes	Handmade	Yes	9001



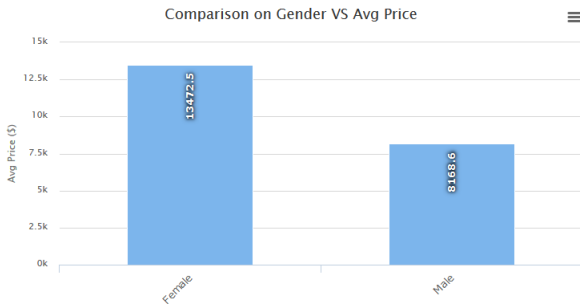
Discover the mysteries hidden in the DB!



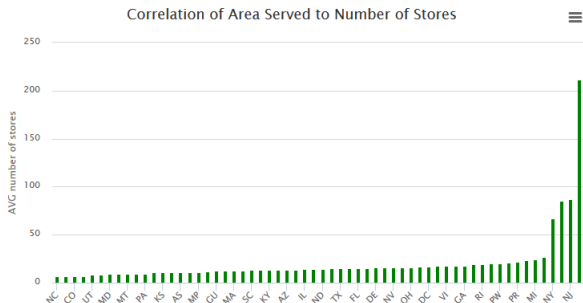
More stores → More asset



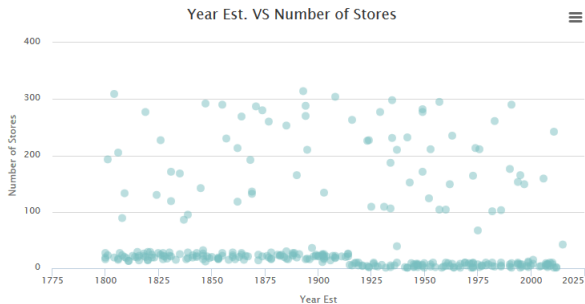
Female → Higher cost



Sell to {CA, NJ ,NY, WorldWide} → Going to have more stores.

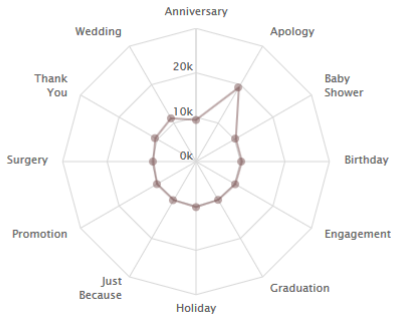


Companies established before 1920 will have more stores on average.



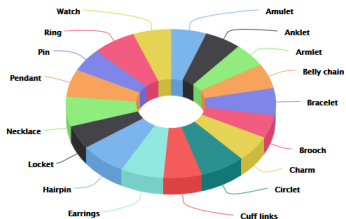
Hope you're not looking to apologize for anything.

Occasion vs Avg Price

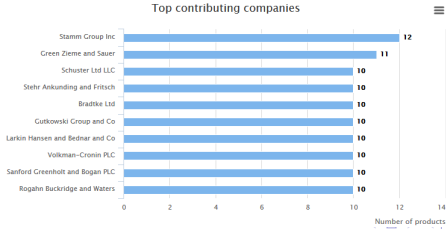


## General DB info

Share of each Category in DB



Top contributing companies



# Thanks

<http://ec2-52-23-164-24.compute-1.amazonaws.com:8080/Home.jsp>

