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Build Customer Confidence, Deliver Exceptional Value

Analyzing the 5-year risk-return relationships of 20 portfolios
in the financial, healthcare and services sector

Eamon | Hayden | Lewis | Jason

Team 1

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Project Goals

Using Oracle APEX, we seek to answer these few questions:

1. Where are our clients from?
2. Which advisor generated the most returns?
3. Which client earned the most in their portfolios?
4. Among the three industry our firm focuses in, which performed the best?
5. What are the returns of our portfolios with volatility < 65%?
6. What is the relationship between return, beta and volatility?

Quick Introduction to Financial Lingo

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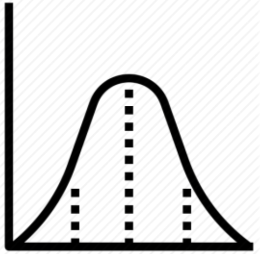
	Returns: The percentage change in a stock’s closing price. In this case, we averaged out the daily returns throughout five years to arrive at a five-year average return for each company’s stock.
	
	

Quick Introduction to Financial Lingo

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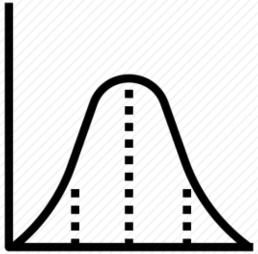
	Beta: The correlation between a stock’s returns and the market’s returns. If beta = 1, then if the market moves up by 1%, the stock’s return = +1%, vice versa. This is considered the systematic risk, i.e. how much you are “exposed” to the market.
	

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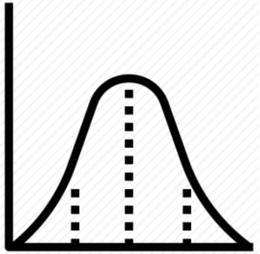

Volatility:

The standard deviation of returns. It measures the degree of difference between each return over five years. If a stock has a large volatility, your return would essentially be very unstable, and hence risky.

Using a combination of real-life and generated data to conduct analysis

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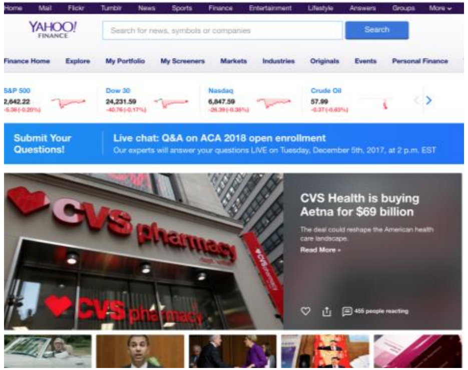
1 Generated client & advisor information and portfolios

Client Id	Name	Phone	Address	Advisor Id	State
1	Lauritz Jackes	8295558053	30 Transport Avenue	20	NY
2	Starr Bucknill	3125269030	04227 Southridge Center	19	IA
3	Bellina Catherall	4918873425	57335 Loftsgordon Park	18	CT
4	Jeane Le Cornu	6047753731	9752 Lerdahl Drive	17	NY
5	Chet Capes	3637829678	09801 Ridgeway Pass	16	WA
6	Merle Mawhinney	7807492489	8 Everett Plaza	15	NY
7	Kassia Batcheldor	1281509282	76933 Bultman Crossing	14	IA
8	Luis Baccup	7667202670	65263 Brentwood Alley	13	NY
9	Agathe Cleworth	9533517665	9937 Blue Bill Park Junction	12	WA
10	Nanine Crampsy	2515735363	926 Haas Way	11	WA
11	Ephraim Lebell	9013046059	8 Hoepker Terrace	10	NY
12	Clarita Borthram	4451030554	92 Pine View Pass	9	IA
13	Judith Trenholm	3485041229	1 Hoard Junction	8	CT
14	Danielle Kenlin	4833655182	0478 Red Cloud Court	7	NY
15	Gray Silvers	3565823096	2695 Burrows Terrace	6	WA

Created personal information of clients, advisors and randomly allotted 5 companies into each portfolio

2 Yahoo Finance



Retrieved 5-year raw data of company stock closing prices

3 Calculation of returns, beta and volatility

Used regression analysis and standard deviation to find out average 5-year beta and volatility of stocks

Entity-Relationship Diagram

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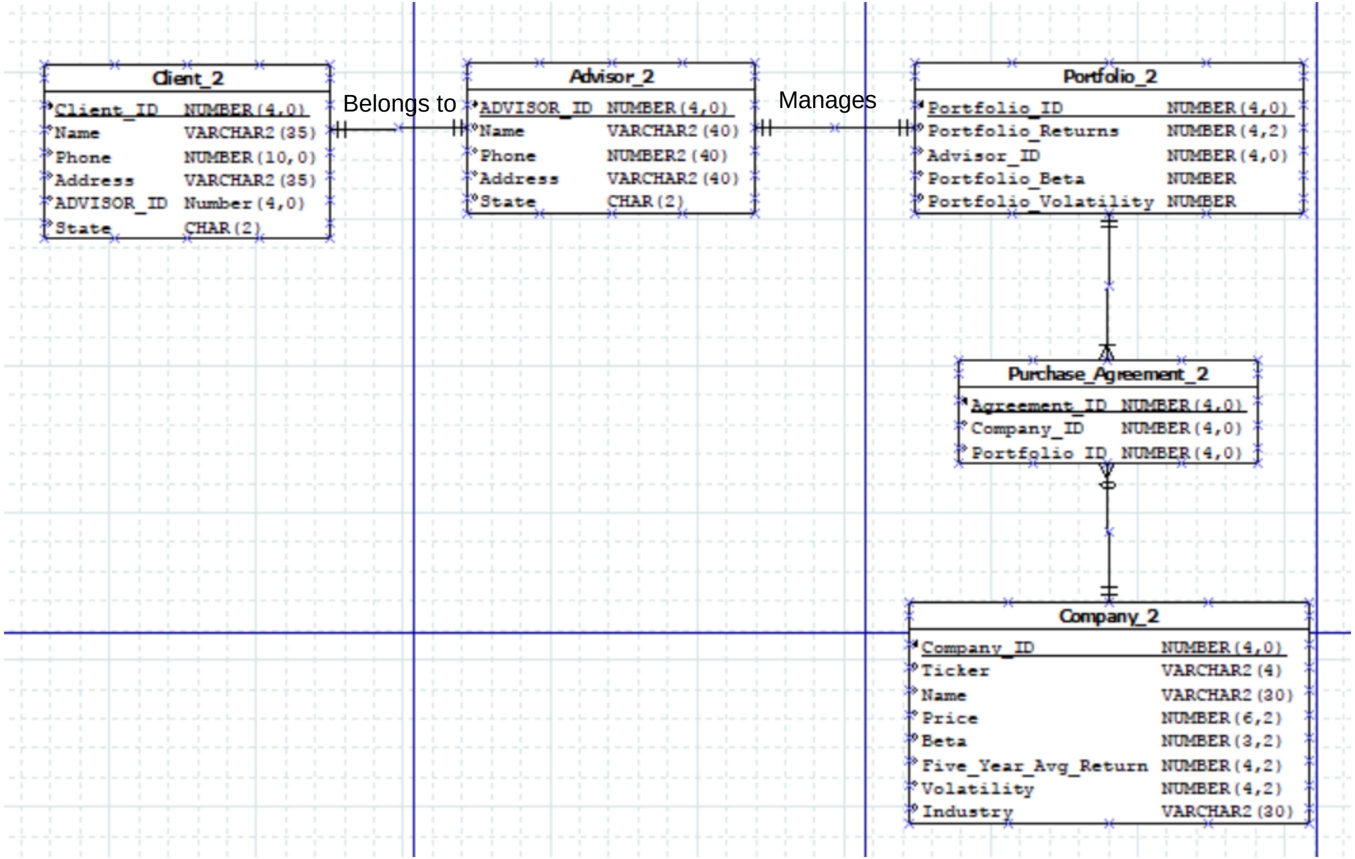

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Relational Schema

Client_2

Client_ID	Name	Phone	Address	Advisor_ID	State

Advisor_2

Advisor_ID	Name	Phone	Address	State

Portfolio_2

Portfolio_ID	Portfolio_Returns	Advisor_ID	Portfolio_Beta	Portfolio_Volatility

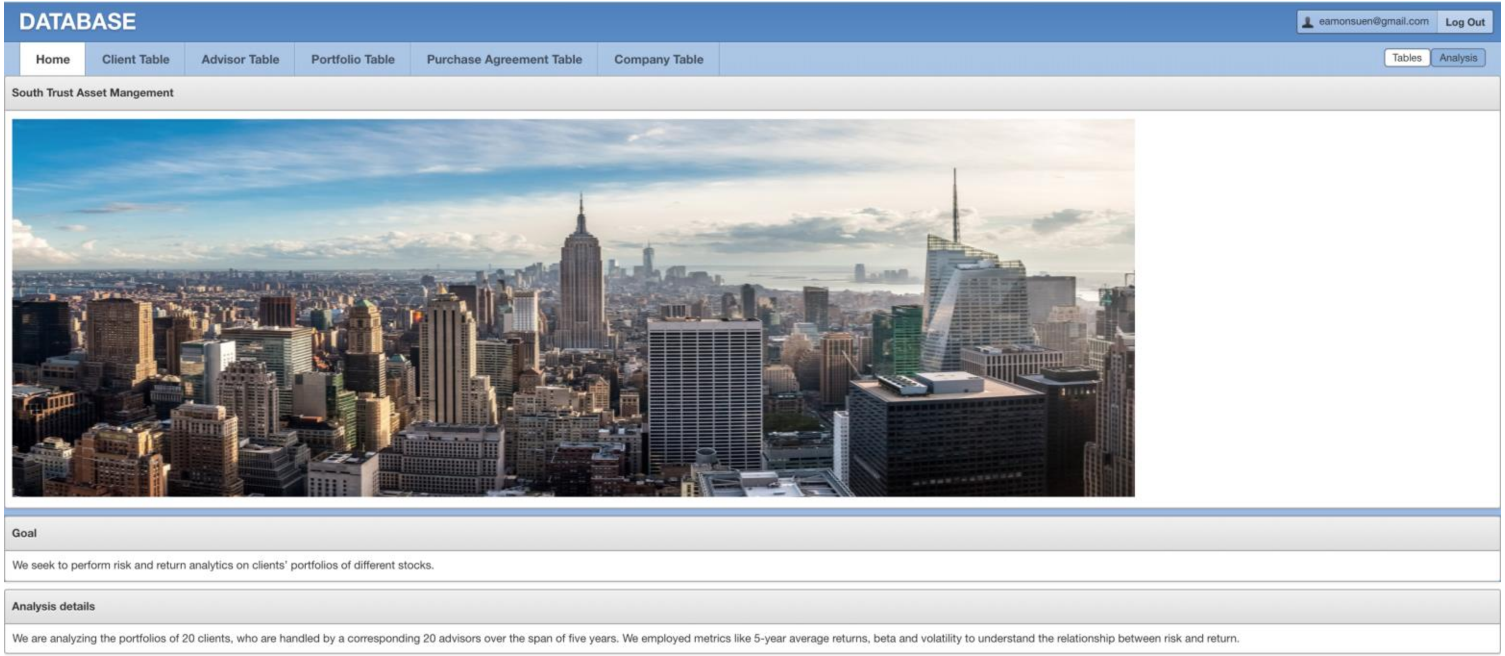
Purchase_Agreement_2

Agreement_ID	Company_ID	Portfolio_ID

Company_2

Company_ID	Ticker	Name	Price	Beta	Five_Year_Avg_Return	Volatility	Industry

Link to Application



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Q&A

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