UC Berkeley Alumni Network Report

Sample Queries and Results:

1) **Question: What openings exist for a certain type of profession? (in this case, Software Engineering is picked from the drop-down menu).**

SELECT Company_Name, Opening_Description, Profession_Name FROM Professions INNER JOIN Openings ON Professions.Profession_Id = Openings.Profession_Id INNER JOIN Offices O on Openings.Office_Id = O.Office_Id INNER JOIN Companies C on O.Company_Id = C.Company_Id WHERE Profession_Name = 'Software Engineering'

1) **Result:**

	Company_Name	Opening_Description	Profession_Name
1	Chick-fil-A	Working on AWS.	Software Engineering
2	Epic	Focusing on AWS Lambda Functions.	Software Engineering
3	Chick-fil-A	Developing in Java.	Software Engineering
4	McDonalds	Developing in Kotlin.	Software Engineering
5	Facebook	Developing in C.	Software Engineering
6	LinkedIn	Developing in C#.	Software Engineering
7	Epic	Creating database tools.	Software Engineering
8	Chick-fil-A	Developing in Python.	Software Engineering
9	McDonalds	Developing Azure tools.	Software Engineering
10	Facebook	Developing back-end infrastructure tools.	Software Engineering
11	LinkedIn	Developing in C++.	Software Engineering
12	LinkedIn	Developing infrastructure platforms.	Software Engineering

2) **Question: Out of the UC Berkeley alumni that reported their positions, what is the average salary by profession (in this case, Software Engineering was picked from the drop-down menu).**

SELECT Profession_Name, ROUND(AVG(Positions.Salary)) as 'Average Salary' FROM Positions INNER JOIN Professions P on Positions.Profession_Id = P.Profession_Id WHERE Profession_Name = 'Software Engineering'

2) **Result:**

	Profession_Name	`Average Salary`
1	Software Engineering	126000

3) **Name all UC Berkeley alumni who work/worked at a specific company (in this case, Apple was searched). Also, what is their profession?**

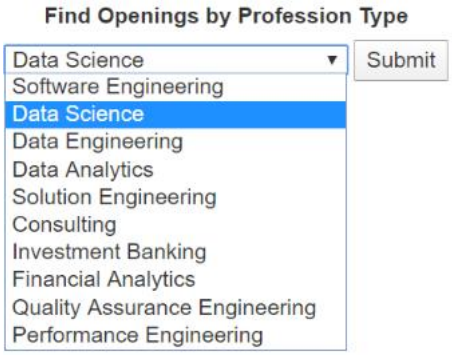
SELECT Person_Name, Profession_Name FROM People INNER JOIN Positions P on People.Person_Id = P.Person_Id INNER JOIN Offices O on P.Office_Id = O.Office_Id INNER JOIN Companies C on O.Company_Id = C.Company_Id INNER JOIN Positions on People.Person_Id = Positions.Person_Id INNER JOIN Professions on Positions.Profession_Id = Professions.Profession_Id WHERE Company_Name = 'Apple'

3) **Result:**

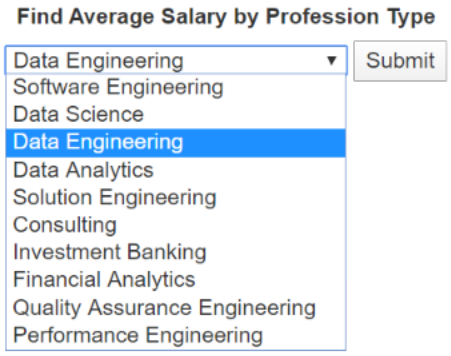
	Person_Name	Profession_Name
1	Julien Smith	Data Science
2	Quinton Wessells	Data Engineering
3	Megan Gillfillan	Financial Analytics
4	Rose Friedman	Quality Assurance Engineering
5	Charlotte Guerry	Performance Engineering

Sample Forms:

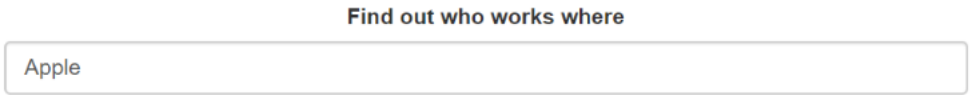
1) **What openings exist for a certain type of profession?**



2) **Out of the UC Berkeley alumni that reported their positions, what is the average salary by profession?**



3) **Name all UC Berkeley alumni who work at a specific company.**



Sample Reports

1) **For each education level, how many Berkeley alumni have reported their positions and for these positions, what is the average salary by education level?**

SELECT People_Education.Education_Id, Education_Name, COUNT(People_Education.Education_Id) as 'Amount per Education Level', AVG(Salary) as 'Average Salary' FROM People_Education INNER JOIN Positions P on People_Education.Person_Id = P.Person_Id INNER JOIN Education_Levels EL on People_Education.Education_Id = EL.Education_Id GROUP BY Education_Id;

1) **Result:**

	Education_Id	Education_Name	`Amount per Education Level`	`AVG(Salary)`
1	1	High School	1	68000.0000
2	2	Some College	7	108357.1429
3	3	Bachelor's	15	105266.6667
4	4	Masters	10	95400.0000
5	5	Doctorate	5	94400.0000

2) **What are the top 5 offices with most openings? Can we get some information about these offices?**

SELECT O.Office_Id, Company_Name, COUNT(Openings.Office_Id) as 'Amount of Openings', City, State, Country FROM Openings INNER JOIN Offices O on Openings.Office_Id = O.Office_Id INNER JOIN Companies C on O.Company_Id = C.Company_Id GROUP BY Openings.Office_Id ORDER BY 'Amount of Openings' DESC LIMIT 5;

2) **Result:**

	Office_Id	Company_Name	`Amount of Openings`	City	State	Country
1	2	Epic	4	Verona	WI	USA
2	3	Chick-fil-A	4	Atlanta	GA	USA
3	4	McDonalds	6	Chicago	IL	USA
4	7	Facebook	6	Menlo Park	CA	USA
5	8	LinkedIn	7	Sunnyvale	CA	USA