

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?

Find Openings by Profession Type		Company Name	Description
Software Engineering	Submit	Chick-fil-A	Working on AWS.
Software Engineering		Epic	Focusing on AWS Lambda Functions.
Data Science		Chick-fil-A	Developing in Java.
Data Engineering		McDonalds	Developing in Kotlin.
Data Analytics		Facebook	Developing in C.
Solution Engineering		LinkedIn	Developing in C#.
Consulting		Epic	Creating database tools.
Investment Banking		Chick-fil-A	Developing in Python.
Financial Analytics		McDonalds	Developing Azure tools.
Quality Assurance Engineering		Facebook	Developing back-end infrastructure tools.
Performance Engineering		LinkedIn	Developing in C++.
		LinkedIn	Developing infrastructure platforms.

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

Find Average Salary by Profession Type

Software Engineering ▼

Software Engineering

Data Science

Data Engineering

Data Analytics

Solution Engineering

Consulting

Investment Banking

Financial Analytics

Quality Assurance Engineering

Performance Engineering

Submit

Profession Type	Salary
Software Engineering	126000

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

Find out who works where

Apple

Person Name	Profession Name
Julien Smith	Data Science
Quinton Wessells	Data Engineering
Megan Gillfillan	Financial Analytics
Rose Friedman	Quality Assurance Engineering
Charlotte Guerry	Performance Engineering

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