Hi Kelly,

Thanks for reaching out to me and I am happy to provide you a thorough analysis on some company data in the ro_company1 database. Below I have provided my answers to your questions, and please feel free to follow-up with me if you have further questions.

Q&A

What is the price that each investor will pay for the purchase of the new company? 2,465,000

```
mysql> SELECT (30000000 - 15210000) / 6;

+------+

| (30000000 - 15210000) / 6 |

+-----+

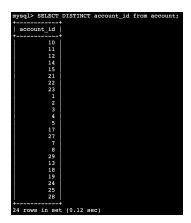
| 2465000.0000 |

+-----+

1 row in set (0.00 sec)
```

ro company1 dataset Questions

How many accounts does company1 have? 24 accounts



What is the primary key of the accounts table? Account_id

| Field | Type | Null | Key | Default | Extra |
|--------------------|---|------|-----|---------|----------------|
| account id | int(10) unsigned | NO | PRI | NULL | auto increment |
| product_cd | varchar(10) | NO | MUL | NULL | _ |
| cust_id | int(10) unsigned | NO | MUL | NULL | |
| open_date | date | NO | | NULL | |
| close_date | date | YES | | NULL | |
| last_activity_date | date | YES | | NULL | |
| status | <pre>enum('ACTIVE','CLOSED','FROZEN')</pre> | YES | | NULL | |
| open_branch_id | smallint(5) unsigned | YES | MUL | NULL | |
| open_emp_id | smallint(5) unsigned | YES | MUL | NULL | |
| avail_balance | float(10,2) | YES | | NULL | |
| pending_balance | float(10,2) | YES | | NULL | |

What are the possible values that could be in the status field in the account table (see above)? An ENUM, string object, specifically the values 'ACTIVE', 'CLOSED', 'FROZEN'

Which employee ID has opened the most company accounts? 1

When did the employee who has opened the most accounts start working at the company? June, 22, 2001 OR READ AS 2001-06-22

```
mysql> SELECT start_date, emp_id FROM employee HAVING emp_id < 2;
+-----+
| start_date | emp_id |
+-----+
| 2001-06-22 | 1 |
+-----+
1 row in set (0.01 sec)</pre>
```

Write a query that returns only the date of the transaction and the account id (in that order) from the transaction table sort this by the most recent transaction. SELECT txn date, account id FROM transaction ORDER BY txn date DESC;

What is the primary key in the transaction table? txn_id

| Field | Туре | Null | Key | Default | Extra |
|---------------------|----------------------|------|-----|---------|----------------|
| txn id | int(10) unsigned | NO | PRI | NULL | auto increment |
| txn date | datetime | NO | | NULL | |
| account id | int(10) unsigned | NO | MUL | NULL | |
| txn_type_cd | enum('DBT','CDT') | YES | | NULL | |
| amount | double(10,2) | NO | | NULL | |
| teller emp id | smallint(5) unsigned | YES | MUL | NULL | |
| execution branch id | smallint(5) unsigned | YES | MUL | NULL | |
| funds avail date | datetime | YES | | NULL | |

What are the unique product types that are offered? The three unique product types offered are ACCOUNT, INSURANCE and LOAN.

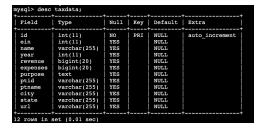
How many branches are located in MA? 3

Can you write a query will list the name of each branch, the address of each branch, the zip code of each branch, and a field that indicates the current time you made the query that shows in the query as a field called "querytime"? SELECT name, address, zip, now() AS querytime FROM branch;

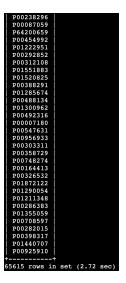
```
mysql> SELECT name, address, zip, now() AS querytime FROM branch;
                  address
  name
  Headquarters
                  3882 Main St.
                                          02451
                                                   2020-01-31 23:03:20
                  422 Maple St.
                                          01801
  Woburn Branch
                                                   2020-01-31 23:03:20
                                          02169
  Quincy Branch
                  125 Presidential Way
                                                   2020-01-31 23:03:20
  So. NH Branch
                  378 Maynard Ln.
                                          03079
                                                   2020-01-31 23:03:20
 rows in set (0.01 sec)
```

taxdata table questions

What type of values can be stored in the year field? An integer with a maximum length of 11 characters.



Using the taxdata table, how many non-duplicated PTID entries are there? Your query should ONLY return the PTIDs that are unique. (distinct) 65, 615



What is the ID number of PTID for? The ID is a unique ID number associated with a specific Certified Public Accountant (CPA).

What do you think the EIN is used for? An Employer Identification Number (EIN) is a unique identification number that is assigned to a business entity so that it can easily be identified by the Internal Revenue Service (IRS).

What is the last entry in the taxdata table? Please write a single query to return this answer.

```
  | id | ein | name
  | year | revenue | expenses | purpose

  ptid | ptname | city | state | url |
```

| 378304 | 351330448 | Big Brothers Big Sisters | 2015 | 353120 | 304867 | Help children to reach their potential through professional supports | P00932103 | Dana Bement | Bloomington | IN |

https://s3.amazonaws.com/irs-form-990/201642289349303444_public.xml |

Lastly, can you give me a list of 50 companies at random and show me their net income?

```
mysql> SELECT name, (revenue - expenses) AS net_income FROM taxdata ORDER BY RAND() LIMIT 50;
                                                                                         net_income
  name
                                                                                              28921
  MAINE MUSIC SOCIETY
  THE AMERICAN-HAITIAN FOUNDATION
                                                                                              101304
  Pennsylvania FFA Alumni Association
                                                                                               -8767
  THE GRAND CHAPTER OF FLORIDA ORDER OFTHE EASTERN STAR CHARITABLE FD INC
                                                                                             3815040
  THE BRUCE KARATZ FAMILY FOUNDATION
                                                                                                   n
  Fairplay Property Owners Association Inc
THE BALD HEAD ISLAND CHAMBER OFCOMMERCE
                                                                                                   0
                                                                                                -673
  SALIDA SENIOR DAYCARE INC
                                                                                              32017
                                                                                              -16614
  LAMAR COUNTY CHILD WELFARE BOARD
  CHAMPAIGN RESIDENTIAL SERVICES INC
                                                                                            1083834
  Raabe Foundation
  WASHINGTON CLUB INCC/O JOHN C MAXWELL
                                                                                               44800
  Good Samaritan Fund & Services of Sun City Center
                                                                                               61036
  ORGAN PROCUREMENT AGENCY OF MICHIGAN
                                                                                             4303435
```

```
THE AMERICAN-HAITIAN FOUNDATION
                                                          | 101304|
Pennsylvania FFA Alumni Association
                                                         -8767
THE GRAND CHAPTER OF FLORIDA ORDER OFTHE EASTERN STAR CHARITABLE FD INC
3815040
THE BRUCE KARATZ FAMILY FOUNDATION
                                                                  0 |
                                                           0 |
| Fairplay Property Owners Association Inc
THE BALD HEAD ISLAND CHAMBER OF COMMERCE
                                                                     -673 |
                                                         32017 |
| SALIDA SENIOR DAYCARE INC
LAMAR COUNTY CHILD WELFARE BOARD
                                                              -16614
CHAMPAIGN RESIDENTIAL SERVICES INC
                                                             1083834
| Raabe Foundation
                                                     0 |
| WASHINGTON CLUB INCC/O JOHN C MAXWELL
                                                                  44800 |
Good Samaritan Fund & Services of Sun City Center
                                                              61036
                                                                | 4303435|
ORGAN PROCUREMENT AGENCY OF MICHIGAN
| SHEKINAH LEARNING INSTITUTE
                                                       | -440005|
                                                      -4542 |
| Partners For Progress in Delta Inc
| Open Mind Project
                                                   2385 |
| WOODLAND HILLS AQUATIC TEAM (WHAT)
                                                                4706
South Texas Youth Soccer Association
                                                         95268 |
LEE CENTER FIRE DEPARTMENT INC
                                                            47311 |
| BRIDGE STREET MERCHANTS INC
                                                            9063
21ST CENTURY PARKS ENDOWMENT INC
                                                            6082125
| MANSFIELD FFA ALUMNI
                                                        1121
St Nicholas Hospital of the Hospital Sisters of the Third Order of St Francis 8070503
| DISCOVER QUINCY INC
                                                       9087
| NANTUCKET PRESERVATION TRUST INC
                                                           267250
| FANTASY FOUNTAIN FUND INC
                                                            0 |
| GORDON STRONG TRUST
                                                           0 |
C5 Youth Foundation of SouthernCalifornia Inc
                                                          -100832
```

| HARBOR HOSPICE FOUNDATION | -1221 |
|--|------------------------|
| HIGH COUNTRY RESOURCE CONSERVATIONAND DEV | VELOPMENT AREA 31879 |
| RICHARD REX PONN CHARITABLE TRUST FUND | 0 |
| ISLAMIC ASSOCIATION OF YPSILANTI INC | -34346 |
| FRANKLIN CONKLIN FOUNDATION | 0 |
| SCHOOL ALLIES INC | 0 |
| WILLIAM B DOUGLAS TUW | 0 |
| ABIDE IN THE VINE CHILD CARE CENTER | -25547 |
| PORTSMOUTH SPORTS CLUB INC | 624 |
| TURNER BRANDON POST 7 INC | 263075 |
| Columbine Figure Skating Club | -15 |
| AYNOR MIDDLE SCHOOL PTO | -1364 |
| LAKEWOOD HEALTH SYSTEM | 10613357 |
| VICTORY RANCH | -212277 |
| CARPATHIA CLUB INC | 179354 |
| ESCAROSA COALITION ON THE HOMELESSINC | 6443 |
| WILSON COUNTY LIBRARIES ENRICHMENTASSOCIAT | TION INC 0 |
| EAST NEW YORK URBAN YOUTH CORPS INC | -498480 |
| Satellite Senior Homes-Walnut Creek Inc | -5355 |
| REBUILDING TOGETHER OF CENTRALFLORIDA INC | 29068 |
| OLD GREENWOOD COMMUNITY FOUNDATION | 44412 |
| | |

I know you have also asked for a database diagram for the ro_query database. That is attached. In total, this assignment took me approximately 140 minutes.

Thank you for the opportunity! Again, let me know if you have any further questions.

Sincerely,

Aaron