1 How many applications (CA) are there by calendar month/quarter of each year?

2 What is the split of CA by channel?

3 What is the split by borrower type?

4 How many FS applications by month/quarter of each year?

5 Which company has the most number of applications ever? Which company has the most number of applications in each of 2016, 2017, 2018, 2019, 2020?

6 For the companies in number 5, what is the total amount each requested to borrow and what is the total amount we lent?

7 For the applications from the 5 companies, assign a number to the application by each company in the order of application date (the first app, the second app, the third app, etc.)

8 What is the number of previous applications per company at the time of each application (i.e. for each app how many came before it, this will change as you have more apps)? What is the number of previous funded loans per company at the time of application?

9 At the time of a given company’s application, how old is the previous loan of that company?

10 For all the applications from the 5 companies **which are funded**, what is the status and principal remaining of the loans as of today?

11 For all the applications from the 5 companies, what is the total exposure (the amount of money that it is in debt to FC for) of the company at the time of each application?

12 For all the applications from the 5 companies, what is the current bucket of the previous loan at application? If there are multiple previous loans, what is the worst current status among all previous loans?

13 For funded loans, what is the bucket at months 3, 6, and 12 from the date of application?

14 For funded loans, what is the worst bucket of the loan by months 3, 6, and 12 from the date of application?

15 For any application, what is the worst status of the previous loan(s) that the company holds across the preceding 3 months?

Question 2:

SELECT channel, COUNT (\*) as ca\_number

FROM credit\_strategy\_playground.new\_starter\_training\_table1

WHERE channel IS NOT NULL

GROUP BY channel;

Question 3:

SELECT borrower\_type, COUNT (\*) as ca\_number

FROM credit\_strategy\_playground.new\_starter\_training\_table1

WHERE borrower\_type IS NOT NULL

GROUP BY borrower\_type;

Question 4:

By month:

SELECT

DATE\_TRUNC('month', CAST("fully\_submit\_date" as date)) as fs\_month,

COUNT (\*) AS num\_apps

FROM "new\_starter\_training\_table1"

GROUP BY 1

ORDER BY 1;

By quarter

SELECT

DATE\_TRUNC('quarter', CAST("fully\_submit\_date" as date)) as fs\_month,

COUNT (\*) AS num\_apps

FROM "new\_starter\_training\_table1"

GROUP BY 1

ORDER BY 1;

Question 5

Company with most apps: Funding Circle Ltd

SELECT company\_uuid,

COUNT('application\_uuid') AS num\_apps

FROM "new\_starter\_training\_table1"

GROUP BY company\_uuid

ORDER BY num\_apps DESC

LIMIT 1;

Each year: 2016-2020

WITH counted\_data as (

SELECT company\_uuid,

YEAR(created\_date) as year,

COUNT (\*) as count,

row\_number() over (partition by YEAR(created\_date) ORDER BY COUNT(\*) DESC) as rank\_per\_year

FROM "new\_starter\_training\_table1"

WHERE YEAR(created\_date) BETWEEN 2016 AND 2020

GROUP BY company\_uuid, YEAR(created\_date))

SELECT company\_uuid, year, count

FROM counted\_data

WHERE rank\_per\_year = 1;

Question 6:

WITH counted\_data as (

SELECT company\_uuid,

YEAR(created\_date) as year,

COUNT (\*) as count,

row\_number() over (partition by YEAR(created\_date) ORDER BY COUNT(\*) DESC) as rank\_per\_year

FROM "new\_starter\_training\_table1"

GROUP BY company\_uuid, YEAR(created\_date)),

top\_companies AS

(SELECT company\_uuid, year, count

FROM counted\_data

WHERE year BETWEEN 2016 AND 2020 AND rank\_per\_year = 1

)

SELECT top\_companies.company\_uuid,

top\_companies.year,

top\_companies.count,

SUM(new\_starter\_training\_table1.amount\_requested) AS total\_amount\_requested,

SUM(new\_starter\_training\_table3.amount\_lent) AS total\_amount\_lent

FROM top\_companies

JOIN new\_starter\_training\_table1

ON top\_companies.company\_uuid = new\_starter\_training\_table1.company\_uuid

AND YEAR (new\_starter\_training\_table1.created\_date) = top\_companies.year

LEFT JOIN new\_starter\_training\_table3

ON top\_companies.company\_uuid = new\_starter\_training\_table3.company\_uuid

GROUP BY top\_companies.company\_uuid, top\_companies.year, top\_companies.count

ORDER BY top\_companies.year;