Loan Application SQL Queries

/\* Establish a time frame for the loan application data\*/

select

max(ApplicationDate)

from

loan\_applications

select

min(ApplicationDate)

from

loan\_applications

/\* Establish a count of all uid's | 8847 \*/

select

count(distinct UID) AS total\_unique\_uids

from

loan\_applications

/\* Find how many loan applications were approved during this time frame - 922\*/

select

count(success)

from

loan\_applications

where

success = '1'

/\* Find how many loan applications were denied during this time frame - 7925\*/

select

count(success)

from

loan\_applications

where

success = '0'

/\*Confirm employment types to ensure that there are no duplicates that are referenced differently.

(4 differet employment types self employed, employed -full time, retired, employed - part time.\*/

select

distinct employmenttype

from

loan\_applications

/\* Find the # of apps per employment type ascending:

retired = 145, self employed = 418, employed - part time = 570, employed - full time = 7714 \*/

select

employmenttype

, Count (\*) as count\_of\_apps

from

loan\_applications

group by

employmenttype

order by

count\_of\_apps

1. find the percentage of apps per group

2. how many were approved per group

3. Loan amount per group

/\* Find how many people were approved per employment type group.

retired =17, self employed =28, employed - part time =78, employed -fulltime 799 \*/

select

employmenttype,

Count (\*) as count\_of\_apps

from

loan\_applications

where

success = '1'

group by

employmenttype

order by

count\_of\_apps

/\* Find the total amount loaned per employment type group \*/

select

sum(Amount) as total\_loaned\_per\_employmenttype

, employmenttype

from

loan\_applications

group by

employmenttype

/\*Change the "amount" columns data type to bigint \*/

alter table loan\_applications

alter column amount type bigint

using amount::bigint

/\* Find the percentage of applicants that work full time - 87.19 percent \*/

select

cast(n.total\_of\_employed\_fulltime as decimal (10,2)) / cast(d.total\_records as decimal (10,2))

from

(

select

count(\*) as total\_of\_employed\_fulltime

from

loan\_applications la

where

employmenttype = 'Employed - full time'

)n --numerator

cross join

( select

count (\*) as total\_records

from

loan\_applications la

)d --denominator

/\* Find applicants who were denied and have three or more default accounts.\*/

select

\*

from

loan\_applications la

left join

credit\_features cf

on la.uid = cf.uid

where

la.success = '0' and cf.ALL\_CountDefaultAccounts >= '3'

/\*Get the count of applicants that were denied and have three or more default accounts.- 1422\*/

select

count(\*)

from

loan\_applications la

left join

credit\_features cf

on la.uid = cf.uid

where

la.success = '0' and cf.ALL\_CountDefaultAccounts >= '3'

/\* Find applicants were denied but have 2 or less default accounts.\*/

select

\*

from

loan\_applications la

left join

credit\_features cf

on la.uid = cf.uid

where

la.success = '0' and cf.ALL\_CountDefaultAccounts <= '2'