<pre>from pyspark.sql.functions import col, regexp_replace</pre>
<pre># Read from Bronze Delta Table df_bronze = spark.read.format("delta").load("/FileStore/lending/bronze/delta")</pre>
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<pre>+ id member_id loan_amnt funded_amnt funded_amnt_inv term </pre>
<pre>int_rate installment grade sub_grade </pre>

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pymnt plan|
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                                     descl
                title|zip code|addr state|
                                      dtildeling 2vrs|
purposel
earliest_cr_line|fico_range_low|fico_range_high|inq_last_6mths|
mths since last deling|mths since last record|open acc|pub rec|
revol bal|revol util|total acc|initial list status|out prncp|
                total pymnt|total pymnt inv|total rec prncp|
out prncp inv
total rec int|total rec late fee|recoveries|collection recovery fee|
last pymnt d|last pymnt amnt|next pymnt d|last credit pull d|
last fico range high|last fico range low|collections 12 mths ex med|
mths since last major derog|policy code|application type|
annual inc joint|dti joint|verification status joint|acc now deling|
tot coll amt|tot cur bal|open acc 6m|open act il|open il 12m|
open il 24m/mths since rcnt il/total bal il/il util/open rv 12m/
open_rv_24m|max_bal_bc|all util|total rev hi lim|ing fi|total cu tl|
inq_last_12m|acc_open_past_24mths|avg_cur_bal|bc_open_to_buy|bc_util|
chargeoff within 12 mths|deling amnt|mo sin old il acct|
mo sin old rev tl op|mo sin rcnt rev tl op|mo sin rcnt tl|mort acc|
mths_since_recent_bc|mths_since_recent_bc_dlq|mths_since_recent_inq|
mths since recent revol deling|num accts ever 120 pd|num actv bc tl|
num actv rev tl|num bc sats|num bc tl|num il tl|num op rev tl|
num rev accts|num rev tl bal qt 0|num sats|num tl 120dpd 2m|
num tl 30dpd|num tl 90g dpd 24m|num tl op past 12m|pct tl nvr dlg|
percent bc gt 75|pub rec bankruptcies|tax liens|tot hi cred lim|
total bal ex mort|total bc limit|total il high credit limit|
revol bal joint|sec app fico range low|sec app fico range high|
sec app earliest cr line|sec app ing last 6mths|sec app mort acc|
sec_app_open_acc|sec_app_revol_util|sec_app_open_act_il|
sec app num rev accts|sec app chargeoff within 12 mths|
sec app collections 12 mths ex med|
sec_app_mths_since_last_major_derog|hardship flag|hardship type|
hardship reason|hardship status|deferral term|hardship amount|
hardship start date|hardship end date|payment plan start date|
hardship length|hardship dpd|hardship loan status|
orig projected additional accrued interest|
hardship payoff balance amount|hardship last payment amount|
disbursement method|debt settlement flag|debt settlement flag date|
settlement status|settlement date|settlement amount|
settlement percentage|settlement term|
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|6300587|
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            12000.0
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            C3|
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    42000.0
         Source Verified|Jul-2013| Fully Paid|
MORTGAGE |
                    credit_card|Credit
n|https://lendingcl...|
               NULL
             3.8
                  0.0|
                      0ct-1996|
Card Payoff
     713xx|
           LA|
670.0|
      674.0|
            0.0
                     33.0|
       0.0
NULL
   7.0
         3108.0
              91.4
                  29.0
   0.0
        0.0|13885.726104168401|
                    13885.73
12000.0|
     1864.87 | 20.860000009100002 |
                  0.0|
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   Nov-2014
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8.0| 1.0| 3385.0| 25.5| 15.0|
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 f| 0.0|
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-2013| 7220.52| NULL|
610.0| 0.0|
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NULL| NULL| 13300.0| NULL| NULL|
5.0| 1136.0| 1842.0| 29.2|
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Aug-2018|
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https://lendingcl...|
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MORTGAGE| 114107.0| Verified|Jul-2013| Fully Paid|
n|https://lendingcl...| Borrower added ...| credit_card|
Refinance loan| 272xx| NC| 7.08| 0.0| 0ct-1
Refinance loan | 272xx | NC | 7.08 | 755.0 | 759.0 | 0.0 |
                                                       0ct-1996|
                                                      NULL
        11.0|
NULL
                 0.0| 29366.0| 38.2|
                                                43.0|
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730.17|
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                                                       Nov-2018|
                   765.0|
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                   18000.0| 18000.0|
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|6301469|
          452.79| D| D1|McKenna Brothers ...|
50000.0| Source Verified|Aug-2013| Fully Paid|
17.56
          452.79|
MORTGAGE |
n|https://lendingcl...|
                                     NULL|debt consolidation|Debt
consolidation| 338xx|
                             FL|13.92|
                                              0.0
                                                    Jan-1999|
                            0.0|
                                                    NULLI
695.0
               699.0|
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               0.0 | 10758.0 | 95.2
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                 0.0| 27239.794818997|
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18000.0
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                                                     Feb-2019|
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                        452.24
                   575.0|
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579.0
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                     Individual|
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only showing top 5 rows
# Clean & Transform
df_silver = df_bronze.dropna(subset=["loan_amnt", "term", "int_rate"])
```

```
.withColumn("int rate", regexp replace("int rate", "%",
"").cast("double")) \
 .withColumn("loan_amnt", col("loan_amnt").cast("double")) \
 .withColumn("annual inc", col("annual_inc").cast("double")) \
 .withColumn("dti", col("dti").cast("double")) \
 .withColumn("emp_length", regexp_replace("emp_length", "\\+ years|
years |< 1 \text{ year}^{"}, "")
 .withColumn("emp length", regexp replace("emp length", "n/a",
 .withColumn("emp length", col("emp length").cast("int"))
# Save as Delta Table in Silver Layer
df silver.write.format("delta").mode("overwrite").save("/FileStore/
lending/silver/delta")
# Preview Transformed Data
df silver.show(5)
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  +-----
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  id|member id|loan amnt|funded amnt|funded amnt inv|
int rate|installment|grade|sub grade|
                                        emp title|emp length|
home ownership|annual inc|verification status| issue d|loan status|
                                        descl
pymnt plan|
                       urll
purpose|
                 title|zip code|addr state|
                                         dti|deling 2yrs|
earliest cr line|fico range low|fico range high|ing last 6mths|
mths since last deling|mths since last record|open acc|pub rec|
revol_bal|revol_util|total_acc|initial_list_status|out_prncp|
                 total pymnt|total pymnt inv|total rec prncp|
out prncp inv|
total rec int|total rec late fee|recoveries|collection recovery fee|
last pymnt d|last pymnt amnt|next pymnt d|last credit pull d|
last fico range high|last fico range low|collections 12 mths ex med|
mths since last major derog|policy code|application type|
annual inc joint|dti joint|verification status joint|acc now deling|
tot coll amt|tot cur bal|open acc 6m|open act il|open il 12m|
open il 24m/mths since rcnt il/total bal il/il util/open rv 12m/
open_rv_24m|max_bal_bc|all_util|total_rev_hi_lim|inq_fi|total_cu_tl|
ing last 12m/acc open past 24mths/avg cur bal/bc open to buy/bc util/
chargeoff within 12 mths|deling amnt|mo sin old il acct|
mo_sin_old_rev_tl_op|mo_sin_rcnt_rev_tl_op|mo_sin_rcnt_tl|mort_acc|
mths since recent bc|mths since recent bc dlq|mths since recent inq|
mths since_recent_revol_delinq|num_accts_ever_120_pd|num_actv_bc_tl|
num actv rev tl|num bc sats|num bc tl|num il tl|num op rev tl|
num rev accts|num rev tl bal gt 0|num sats|num tl 120dpd 2m|
num tl 30dpd|num tl 90g dpd_24m|num_tl_op_past_12m|pct_tl_nvr_dlq|
percent bc gt 75|pub rec bankruptcies|tax liens|tot hi cred lim|
total bal ex mort|total bc limit|total il high credit limit|
revol bal joint|sec app fico range low|sec app fico range high|
sec_app_earliest_cr_line|sec_app_inq_last_6mths|sec_app_mort_acc|
sec app open acc|sec app revol util|sec app open act il|
sec app num rev accts|sec app chargeoff within 12 mths|
sec app collections 12 mths ex med|
sec app mths since last major derog|hardship flag|hardship type|
hardship reason|hardship status|deferral term|hardship amount|
hardship start date|hardship end date|payment plan start date|
hardship_length|hardship_dpd|hardship_loan_status|
orig projected additional accrued interest
hardship payoff balance amount|hardship last payment amount|
disbursement method|debt settlement flag|debt settlement flag date|
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settlement status|settlement date|settlement amount|
settlement percentage|settlement term|
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163005871
   12000.0
      12000.01
         12000.0| 36 months|
  NULL|
15.22
  417.28
     C3|
         NULLI
           NULLI
    Source Verified|Jul-2013| Fully Paid|
MORTGAGE |
  42000.0
n|https://lendingcl...|
         credit card|Credit
       NULLI
      3.8
Card Payoff|
  713xx|
     LA|
        0.0|
          Oct-1996|
670.0|
      0.0|
   674.0|
          33.0|
```

```
7.0| 0.0| 3108.0| 91.4|
0.0| 0.0|13885.726104168401|
NULL
                                                       29.01
                                                      13885.73
f|
12000.0| 1864.87|20.86000009100002|
                                                       0.0
0.0
         Nov-2014| 108.83| NULL|
                                                     0.0|
                                                                Nov-2014|
              615.01
619.0
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NULL
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NULL
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3400.0| NULL|
1036.0| NI
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3400.0| NULL|
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NULL
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                         2.0|
NULL
             0.0|
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             0.0| 1
18.0| 1.0|
                                                    204.0|
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                                                   NULL
18.0|
                         18.0|
                                                            33.01
NULLI
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                                  3.0|
3.0|
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NULL
NULL|
Cash| N| NULL| NULL|
NULL| NULL| NULL| NULL|
|6311418| NULL| 7125.0| 7125.0| 36 months|
15.88| 250.08| C| C4| century concrete| 10|
RENT| 30000.0| Not Verified|Jul-2013| Fully Paid| n|
https://lendingcl...| Borrower added ...| other|
Other| 236xx| VA|13.28| 0.0| Jun-2000|
605.01 609.01 0.0| NULL|
                                                                    NULL
         699.0| 0.0|

8.0| 1.0| 3385.0| 25.5| 15.0|

0.0| 0.0| 7220.924234675899| 7
695.01
                                                           NULL
93.0|
                                                       7220.921
f|
                 95.92| 0.0|
|3| 7220.52| NULL|
                                                      0.0|
7125.0|
                                              NULL|
0.0|
NULL|
         Sep-2013|
0.0|
                                                              Aug-2018|
              1.0| Individual| N
0.0| 150.0| 9090.0|
NULL| NULL
                     610.01
614.0
NULL
                                                                         NULL
                                                           NULL
NULL

    NULL|
    NULL|
    NULL|
    NULL|

    NULL|
    NULL|
    NULL|

    NULL|
    NULL|
    NULL|

    NULL|
    NULL|

    13300.0|
    NULL|

    NULL|
    NULL|

    136.0|
    1842.0|

    150.0|

                                                           NULLİ
NULLI
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NULL
                                  81.0|
             0.0|
0.0|
                                                    159.0|
             5.0| 0.0|
                                                   15.0|
15.0
                         15.0|
                                                            NULL
NULLI
                                   3.0| 3.0| 4.0| 8.0|
            1.0|
11.0|
0
                                                                   4.0|
                                                            5.0|
0.01
6.0|
                                                                    0.01
                     0.0|
                                           2.0|
0.0|
                                                          100.0|
```

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0.0|
0.01
                    1.0|
                                         20200.0|
                                                            9090.01
2600.0|
                          6900.0|
                                           NULL
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NULL
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NULL
                                               Cash
                                        NULL|
                     NULL|
                                                       NULL
N |
                                     NULL
NULLI
                    NULL|
                    24000.0| 24000.0| 24000.0| 60 months|
         NULL|
|6321535|
14.33| 562.56| C| C2|Caddell Construct...| 10|

RENT| 85000.0| Verified|Aug-2013| Fully Paid| n|

https://lendingcl...| NULL| credit_card| Lo

for life| 351xx| AL|12.52| 0.0| Jun-1998|

695.0| 699.0| 0.0| NULL|
                                                               Loan
        8.0| 0.0| 30048.0|
0.0| 0.0|
7418.84|
                                   68.4|
                                              15.0
NULL
       0.0|
                                   31418.84
                                               31418.841
24000.0| 7418.84|
                                  0.0|
                                               0.0|
0.0| Apr-2016|
                      13979.48|
                                        NULL
                                                     Apr-2016|
                   730.0|
                                              0.0|
734.0|
                                                    NULL|
            1.0| Individual|
                                            NULL|
NULL
            0.0| 0.0| 43016.0|
NULLI NULLI NUL
                                                  NULL|
NULL
                                                              NULL
                            NULL| NULL|
                                                  NULL|
                                                              NULL
NULLI
           NULL|
                     2.0| 53
                                           NULL|
                                                      NULL
NULLI
          NULL|
                   NULL
                                 43900.01
                                            9236.0| 76.3
                              5377.0|
NULL
           0.01
                            123.0|
0.0|
           0.0| 1 2.0| 2.0|
                                            184.0|
                                           66.01
12.0|
NULL
                                                   NULL
                     12.0|
              5.0|
0.0|
                              6.0|
                              6.0|
                                          5.01
                                                   9.0|
                                                          2.0|
            11.0|
                                          8.0|
                                                          0.01
7.0|
                  0.0
                                 1.01
                                                 100.0|
0.0|
                                           58199.0|
                                                            30048.0|
                     0.0|
                              0.0|
80.01
38900.0|
                              0.0|
                                            NULLI
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                                               Cashl
                                                       NULL|
                                        NULL
                      NULLI
N |
                    NULL
                                     NULL
NULL
             NULL| NULL| NULL| NULL| 24000.0| 24000.0| 36 months|
163005261
6.03| 730.46| A| A1|Lexington family ...| 10|
MORTGAGE| 114107.0| Verified|Jul-2013| Fully Paid|
```

```
n|https://lendingcl...| Borrower added ...|
                                           credit card
Refinance loan | 272xx|
                                                       0ct-1996|
                       NC| 7.08|
                                            0.0|
755.0|
              759.0|
                            0.0
                                                 NULL
                0.0| 29366.0|
                                  38.21
                                           43.0|
NULLI
        11.0|
              0.0| 26296.2757411036|
                                               26296.281
       0.0|
24000.0|
         2296.28
                                           0.0|
                              0.0
                                     NULL
       Aug-2016|
                       730.17
                                                  Nov-2018|
0.0|
                  765.0|
                                            0.0
769.0
                    Individual|
                                         NULL|
           1.0|
                                                  NULL
NULL
                          0.0| 286131.0|
                                               NULL|
NULL
             0.0
                                                          NULL
                                               NULL
NULLI
          NULL|
                           NULL|
                                       NULL
                                                          NULLI
          NULL|
                                       NULL
NULLI
                  NULL
                              76900.0
                                                  NULLI
                          26012.0|
                                        34634.0| 45.9|
NULL
                    3.0|
          0.01
                                             204.01
0.0
                          132.0|
                     7.0|
7.0|
             7.0
                                        7.0|
                                                NULL
NULL
                    7.0|
0.0|
                            2.0|
             2.0|
                                       6.0|
                                               13.0|
                                                         5.01
                               2.0|
            31.0|
                                       11.0|
10.0|
                                                       0.0
                 0.0
                                  2.0|
                                              100.0|
0.0|
0.0
                            0.0
                                      336489.0|
                                                       29366.0
                   0.0|
                            0.0
64000.0|
                                         NULL
NULL
                     NULL
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               NULL|
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N I
                                  NULL
NULL
                    NULL
                   18000.0| 18000.0|
                                            18000.0| 60 months|
|6301469|
            NULL|
          452.79| D|
                           D1|McKenna Brothers ...| 10|
17.56
MORTGAGE | 50000.0 | Source Verified | Aug-2013 | Fully Paid |
                                   NULL|debt consolidation|Debt
n|https://lendingcl...|
                            FL|13.92|
                                           0.0
consolidation| 338xx|
                                                 Jan-1999|
              699.0
                             0.0|
                                                 NULL
695.0
        9.0
             0.0| 10758.0| 95.2|
                                           20.0|
NULLI
                0.0| 27239.794818997|
       0.0
                                               27239.79
18000.0|
            9239.79
                                 0.0
                                           0.0
0.0|
                                     NULL
                                                  Feb-2019|
       Aug-2018|
                     452.24
                  575.01
579.0
                                            0.0
                    Individual|
           1.0|
                                         NULL|
                                                  NULL
NULL
            0.0
                                               NULL|
NULLI
                          0.0| 114474.0|
                                                          NULLI
          NULL
                                       NULLI
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                           NULLI
                                               NULL
NULLI
                  NULL
                                       NULL
                                                  NULL
NULLI
          NULL|
                              11300.0
                         14309.0|
                                           85.01
                  4.01
                                                  97.91
NULLI
0.0|
          0.01
                          142.0|
                                             176.0|
19.0|
          13.0| 4.0|
                                       148.0|
```

```
NULLI
     19.01
            NULLI
          4.0|
              5.01
0.01
   3.0|
       6.01
            6.01
       6.0
7.0|
   11.0|
          9.01
              0.0
0.0|
           100.0|
        0.0
    0.01
     0.0
          122916.0|
100.0
       0.01
18193.0
   4100.0|
          8596.01
              NULL
     NULLI
NULL
           NULL
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