```
1 • SELECT * FROM bankanalysis.combined_data;
  2 • ⊖ WITH loan_stats AS (
                YEAR(STR_TO_DATE(issiue_d, '%d/%m/%Y')) AS `year`,
            loan_amnt
FROM combined_data
            WHERE issiue_d IS NOT NULL AND loan_amnt IS NOT NULL
  11
 12
                loan_amnt,
               ROW_NUMBER() OVER (PARTITION BY year ORDER BY loan_amnt) AS rn,
 13
 14
                COUNT(*) OVER (PARTITION BY year) AS cnt
 15
            FROM loan_stats
      L),
 16
 17

→ median_loan AS (
 18
            SELECT year, loan_amnt
 19
            FROM ranked_loans
 20
            WHERE rn = FLOOR(cnt / 2) + 1
 21
 22
22
23
24 ⊖
25 ⊖
            rl.year,
            COALESCE(CONCAT('$',
                CASE
                    WHEN SUM(rl.loan_amnt) >= 1000000 THEN ROUND(SUM(rl.loan_amnt) / 1000000)
                    WHEN SUM(rl.loan_amnt) >= 1000 THEN ROUND(SUM(rl.loan_amnt) / 1000)
 28
                    ELSE ROUND(SUM(rl.loan_amnt))
 29
30
                END,
                CASE
 31
                  WHEN SUM(rl.loan_amnt) >= 1000000 THEN 'M'
 32
                    WHEN SUM(rl.loan_amnt) >= 1000 THEN 'K'
 33
                    ELSE ''
 34
                END), '$0') AS `Total Loan Amount`,
 35
            COALESCE(CONCAT('$',
 36
                CASE
                   WHEN AVG(rl.loan_ammt) >= 1000000 THEN ROUND(AVG(rl.loan_ammt) / 1000000)
WHEN AVG(rl.loan_ammt) >= 1000 THEN ROUND(AVG(rl.loan_ammt) / 1000)
 37
 39
                    ELSE ROUND(AVG(rl.loan_amnt))
 40
                END,
 41
                CASE
 42
                   WHEN AVG(rl.loan_amnt) >= 1000000 THEN 'M'
 43
                    WHEN AVG(rl.loan_amnt) >= 1000 THEN 'K'
 44
                    ELSE ''
 45
                END), '$0') AS `Average Loan Amount`,
 46
            COALESCE((
 47
                SELECT CONCAT('$',
 48
                    CASE
                       WHEN ml.loan_amnt >= 1000000 THEN ROUND(ml.loan_amnt / 1000000)
                        WHEN ml.loan_amnt >= 1000 THEN ROUND(ml.loan_amnt / 1000)
 51
                        ELSE ROUND(ml.loan_amnt)
```

52

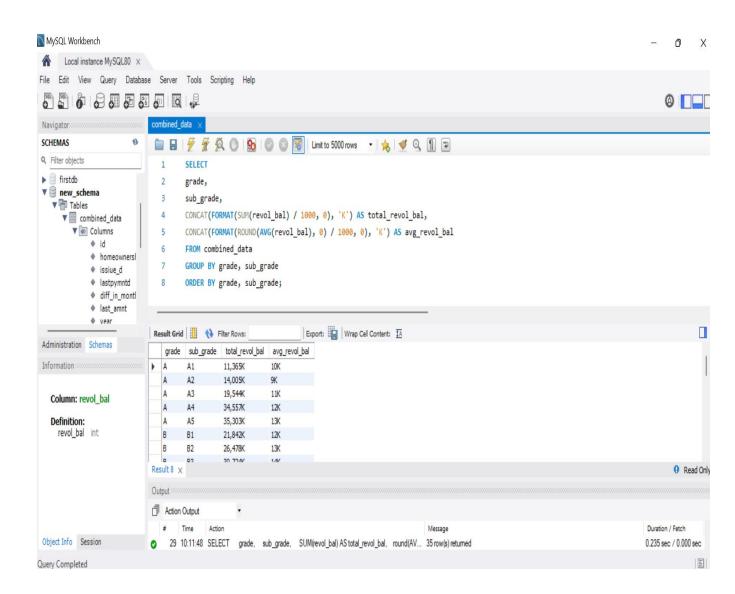
END.

```
53
54
55
                       CASE
                          WHEN ml.loan_amnt >= 1000000 THEN 'M'
                             WHEN ml.loan_amnt >= 1000 THEN 'K'
 56
57
                           ELSE **
 58
                   FROM median_loan ml WHERE ml.year = rl.year), '$0') AS 'Median Loan Amount',
 60
61
              COALESCE(CONCAT('$',
                  CASE
                      WHEN MAX(rl.loan_ammt) >= 1000000 THEN ROUND(MAX(rl.loan_ammt) / 1000000)
WHEN MAX(rl.loan_ammt) >= 1000 THEN ROUND(MAX(rl.loan_ammt) / 1000)
 62
 63
                      ELSE ROUND(MAX(rl.loan_amnt))
 64
65
                   END,
 66
67
                      WHEN MAX(rl.loan_amnt) >= 1000000 THEN 'M'
 68
                       WHEN MAX(rl.loan_amnt) >= 1000 THEN 'K'
 69
                      ELSE **
 70
71
72
73
                   END), '$0') AS 'Max Loan Amount',
              COALESCE(CONCAT('$',
                  CASE
                      WHEN MIN(rl.loan_amnt) >= 1000000 THEN ROUND(MIN(rl.loan_amnt) / 1000000)
 74
                        WHEN MIN(rl.loan_amnt) >= 1000 THEN ROUND(MIN(rl.loan_amnt) / 1000)
 75
76
                      ELSE ROUND(MIN(rl.loan_amnt))
                   END.
 77
                  CASE
                      WHEN MIN(rl.loan_amnt) >= 1000000 THEN 'M'
 79
80
                      WHEN MIN(rl.loan_amnt) >= 1000 THEN 'K'
                      ELSE ''
                  END), '$0') AS `Min Loan Amount`
 82
 83
         FROM ranked_loans rl
 84
          GROUP BY rl.year
 85
86
87
          HAVING rl.year IS NOT NULL
          ORDER BY rl.year DESC;
<
Result Grid | | Filter Rows:
                                     Export: Wrap Cell Content: A
       year Total Loan
Amount
                                Average Loan
Amount
                                                    Median Loan
Amount
       2011 $261M
2010 $122M
2009 $46M
2008 $14M
2007 $2M
                               $12K
$11K
$10K
$9K
$9K
                                                                      $35K
$25K
$25K
$25K
$25K
$25K
                                                    $10K
$10K
```

\$1K \$500

\$9K \$8K \$7K

Kpi 2



```
CREATE DATABASE IF NOT EXISTS my_database;
  2 •
        USE my_database;
        SELECT DATABASE();
  4 • ○ CREATE TABLE IF NOT EXISTS payments (
            id INT PRIMARY KEY,
            total_pymnt DECIMAL(15,6),
            verification status VARCHAR(50)
  7
  8
        );
        SHOW TABLES;
  9 •
        DESCRIBE payments;
 10 •
 11 •
      LOAD DATA INFILE 'C:/Users/shantanu/Desktop/data.csv'
 12
        INTO TABLE payments
        FIELDS TERMINATED BY ','
 13
        ENCLOSED BY '"'
 14
 15
        LINES TERMINATED BY '\n'
        IGNORE 1 ROWS
 16
 17
        (id, total_pymnt, verification_status);
        SELECT * FROM payments LIMIT 10;
        INSERT INTO payments (id, total_pymnt, verification_status)
 19 •
        VALUES
 20
            (54734, 29330.356700, 'Verified'),
            (55742, 8215.537060, 'Not Verified'),
 22
            (57245, 1457.819531, 'Not Verified');
 23
 24 •
             SELECT * FROM payments;
 25 •
             SELECT
             verification status,
 26
             SUM(total_pymnt) AS total_payment
 27
         FROM payments
 28
         GROUP BY verification status;
 29
                                   Export: Wrap Cell Content: IA
verification_status total_payment
 Verified
               29330.356700
            8215.537060
  Not Verified
```

```
SELECT * FROM bankanalysis.combined_data;
         SELECT
             addr_state AS `State`,
             COALESCE(DATE_FORMAT(STR_TO_DATE(issiue_d, '%d/%m/%Y'), '%M'), 'Unknown') AS `Month`,
  4
            COALESCE(loan_status, 'Unknown') AS `Loan Status`,
  5
  6
            COUNT(*) A5 `Loan Count`
  7
        FROM combined_data
  8
        WHERE issiue_d IS NOT NULL
            AND addr_state IS NOT NULL
  9
            AND loan_status IS NOT NULL
 10
 11
            AND STR_TO_DATE(issiue_d, '%d/%m/%Y')
         IS NOT NULL -- Ensure date conversion works
 12
 13
         GROUP BY addr_state, Month, loan_status
 14
         ORDER BY addr_state, Month;
Export: Wrap Cell Content: 🔣 | Fetch rows:
                   Loan
                              Loan
   State Month
                   Status
                              Count
▶ CA
                  Fully Paid
         December
                             661
                  Fully Paid
   CA November
                             578
   CA
         October
                  Fully Paid
   CA August
                  Fully Paid
                             532
   CA
         September Fully Paid
                             527
   CA
         May
                  Fully Paid
                             515
                  Fully Paid
   CA
         June
                             456
   CA
         July
                  Fully Paid
                             451
   CA
         April
                  Fully Paid
                 Fully Paid
   CA
         March
                             406
                  Edilo Daid
Result 12 ×
```

```
□ □ | \( \frac{\tau}{2} \) \( \frac{\tau}{2} \)
                                                                                                                                                 🕶 | 🏡 | 🍼 🔍 🗻 🖃
   1 •
                    SELECT * FROM bankanalysis.combined_data;
   2 •
                    SELECT
    3
                              homeownership,
    4
                              ROUND(AVG(diff_in_months), 0) AS `Avg. Diff In Months`,
   5
                             CONCAT('$',
    6
                                       CASE
    7
                                                 WHEN AVG(last_amnt) >= 1000000 THEN ROUND(AVG(last_amnt) / 1000000, 2)
                                                 WHEN AVG(last_amnt) >= 1000 THEN ROUND(AVG(last_amnt) / 1000, 2)
   8
   9
                                                 ELSE ROUND(AVG(last_amnt), 2)
                                        END,
  10
  11
                                        CASE
  12
                                                 WHEN AVG(last_amnt) >= 1000000 THEN 'M'
  13
                                                  WHEN AVG(last_amnt) >= 1000 THEN 'K'
  14
                                                  ELSE ''
  15
                                        END
  16
                             ) AS `Avg. Last Pymnt Amnt`,
  17
                              CONCAT('$',
      18
                                             CASE
      19
                                                       WHEN SUM(loan_amnt) >= 1000000 THEN ROUND(SUM(loan_amnt) / 1000000, 2)
                                                        WHEN SUM(loan_amnt) >= 1000 THEN ROUND(SUM(loan_amnt) / 1000, 2)
      20
                                                       ELSE ROUND(SUM(loan_amnt), 2)
      21
      22
                                             END,
      23
                                                        WHEN SUM(loan_amnt) >= 1000000 THEN 'M'
      24
                                                       WHEN SUM(loan_amnt) >= 1000 THEN 'K'
      25
                                                     ELSE ''
      26
       27
       28
                                  ) AS `Last Pymnt Amnt`
      29
                         FROM
      30
                                   combined data
      31
                         WHERE
      32
                                  diff_in_months >= 0
       33
                         GROUP BY
       34
                                  homeownership
                                        `Avg. Diff In Months` DESC;
          36
          37
      Export: Wrap Cell Content: IA
                                                                                                                                           _ Last Pymnt
                                                     Avg. Diff In
Months
                                                                                                  Avg. Last Pymnt
               homeownership
                                                                                                 Amnt
                                                                                                                                                   Amnt
              MORTGAGE
                                                                                                $3.19K
                                                                                                                                                  $223.92M
                                                   36
              OWN
                                                   35
                                                                                                $2.70K
                                                                                                                                                 $31.34M
              RENT
                                                                                                                                                  $188.69M
                                                   35
                                                                                                $2.21K
                                                                                                                                                 $16.80K
            NONE
                                                   42
                                                                                               $178.00
            OTHER
                                                                                                $1.77K
                                                                                                                                                  $1.04M
      Result 4 ×
```