

SQL PROJECT

LOAN MANAGEMENT SYSTEM ANALYSIS

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DATA SET

- Customer Income Status
- Loan Status
- Customer Info
- Country State
- Region Info

STEP 1

- Import table from sheet 1- customer income status.
- Set customer criteria based on applicant income.

INPUT

```
1  -- STEP 1
2  -- Create table customer criteria based on applicant income.
3
4  • SELECT * FROM customer_income;
5
6  • CREATE TABLE Customer_criteria
7    SELECT *,
8    CASE
9      WHEN ApplicantIncome > 15000 THEN "Grade A customer"
10     WHEN ApplicantIncome > 9000 THEN "Grade B customer"
11     WHEN ApplicantIncome > 5000 THEN "Middle class customer"
12     ELSE "Low class customer"
13   END AS Criteria
14   FROM customer_income
15   ORDER BY ApplicantIncome;
16
17 • SELECT * FROM Customer_criteria
18   ORDER BY ApplicantIncome;
```

| | Loan_ID | Customer ID | ApplicantIncome | CoapplicantIncome | Property_Area | Loan_Status | Criteria |
|---|----------|-------------|-----------------|-------------------|---------------|-------------|--------------------|
| ▶ | LP001722 | IP43217 | 150 | 1800 | Rural | N | Low class customer |
| | LP002502 | IP43469 | 210 | 2917 | Semiurban | Y | Low class customer |
| | LP002949 | IP43601 | 416 | 41667 | Urban | N | Low class customer |
| | LP002603 | IP43501 | 645 | 3683 | Rural | Y | Low class customer |
| | LP001644 | IP43189 | 674 | 5296 | Rural | Y | Low class customer |
| | LP001259 | IP43078 | 1000 | 3022 | Urban | N | Low class customer |
| | LP002345 | IP43419 | 1025 | 2773 | Rural | Y | Low class customer |
| | LP002717 | IP43531 | 1025 | 5500 | Rural | Y | Low class customer |
| | LP001030 | IP43015 | 1299 | 1086 | Urban | Y | Low class customer |

OUTPUT

STEP 2

- Calculate monthly interest percentage criteria based on Applicant income.
- Calculate monthly interest amount and annual interest amount based on loan amount.

INPUT

```
20  -- STEP 2
21  -- Calculate monthly interest amount and annual interest amount based on loan amount.
22
23  • CREATE TABLE Customer_interest_analysis
24  SELECT *,
25  CASE
26  WHEN ApplicantIncome < 5000 AND Property_Area = "Rural" THEN "3%"
27  WHEN ApplicantIncome < 5000 AND Property_Area = "Semirural" THEN "3.5%"
28  WHEN ApplicantIncome < 5000 AND Property_Area = "Urban" THEN "5%"
29  WHEN ApplicantIncome < 5000 AND Property_Area = "Semiurban" THEN "2.5%"
30  ELSE "7%"
31  END AS Monthly_interest_percentage_criteria
32  FROM Customer_criteria
33  ORDER BY ApplicantIncome;
34
35  • SELECT * FROM Customer_interest_analysis;
```

| | Loan_ID | Customer ID | ApplicantIncome | CoapplicantIncome | Property_Area | Loan_Status | Customer_Criteria | Monthly_interest_percentage_criteria |
|---|----------|-------------|-----------------|-------------------|---------------|-------------|-----------------------|--------------------------------------|
| ▶ | LP001003 | IP43002 | 4583 | 1508 | Rural | N | Low class customer | 3% |
| | LP001005 | IP43003 | 3000 | 0 | Urban | Y | Low class customer | 5% |
| | LP001006 | IP43004 | 2583 | 2358 | Urban | Y | Low class customer | 5% |
| | LP001008 | IP43005 | 6000 | 0 | Urban | Y | Middle class customer | 7% |
| | LP001011 | IP43006 | 5417 | 4196 | Urban | Y | Middle class customer | 7% |
| | LP001013 | IP43007 | 2333 | 1516 | Urban | Y | Low class customer | 5% |
| | LP001014 | IP43008 | 3036 | 2504 | Semiurban | N | Low class customer | 2.5% |
| | LP001018 | IP43009 | 4006 | 1526 | Urban | Y | Low class customer | 5% |
| | LP001020 | IP43010 | 12841 | 10968 | Semiurban | N | Grade B customer | 7% |
| | LP001024 | IP43011 | 3200 | 700 | Urban | Y | Low class customer | 5% |

OUTPUT

INPUT

```
37 • ALTER TABLE Customer_interest_analysis
38     ADD Monthly_interest_amount FLOAT,
39     ADD Annual_interest_amount FLOAT;
```

```
45 • UPDATE Customer_interest_analysis
46     SET Monthly_interest_amount = CASE
47     WHEN ApplicantIncome < 5000 AND Property_Area = "Rural" THEN ((ApplicantIncome * 3) / 100)
48     WHEN ApplicantIncome < 5000 AND Property_Area = "Semirural" THEN ((ApplicantIncome * 3.5) / 100)
49     WHEN ApplicantIncome < 5000 AND Property_Area = "Urban" THEN ((ApplicantIncome * 5) / 100)
50     WHEN ApplicantIncome < 5000 AND Property_Area = "Semiurban" THEN ((ApplicantIncome * 2.5) / 100)
51     ELSE ((ApplicantIncome * 2.5) / 100)
52     END;
54 • UPDATE Customer_interest_analysis
55     SET Annual_interest_amount = CASE
56     WHEN ApplicantIncome < 5000 AND Property_Area = "Rural" THEN (((ApplicantIncome * 3) / 100) * 12)
57     WHEN ApplicantIncome < 5000 AND Property_Area = "Semirural" THEN (((ApplicantIncome * 3.5) / 100) * 12)
58     WHEN ApplicantIncome < 5000 AND Property_Area = "Urban" THEN (((ApplicantIncome * 5) / 100) * 12)
59     WHEN ApplicantIncome < 5000 AND Property_Area = "Semiurban" THEN (((ApplicantIncome * 2.5) / 100) * 12)
60     ELSE (((ApplicantIncome * 2.5) / 100) * 12)
61     END;
```


OUTPUT

| Property_Area | Loan_Status | Customer_Criteria | Monthly_interest_percentage_criteria | Monthly_interest_amount | Annual_interest_amount |
|---------------|-------------|-----------------------|--------------------------------------|-------------------------|------------------------|
| Rural | N | Low class customer | 3% | 137.49 | 1649.88 |
| Urban | Y | Low class customer | 5% | 150.00 | 1800.00 |
| Urban | Y | Low class customer | 5% | 129.15 | 1549.80 |
| Urban | Y | Middle class customer | 7% | 150.00 | 1800.00 |
| Urban | Y | Middle class customer | 7% | 135.43 | 1625.10 |
| Urban | Y | Low class customer | 5% | 116.65 | 1399.80 |
| Semiurban | N | Low class customer | 2.5% | 75.90 | 910.80 |
| Urban | Y | Low class customer | 5% | 200.30 | 2403.60 |
| Semiurban | N | Grade B customer | 7% | 321.03 | 3852.30 |
| Urban | Y | Low class customer | 5% | 160.00 | 1920.00 |
| Urban | Y | Low class customer | 5% | 125.00 | 1500.00 |
| Urban | Y | Low class customer | 5% | 153.65 | 1843.80 |
| Rural | N | Low class customer | 3% | 55.59 | 667.08 |
| Urban | Y | Low class customer | 5% | 64.95 | 779.40 |
| Urban | Y | Low class customer | 5% | 247.50 | 2970.00 |
| Urban | Y | Low class customer | 5% | 179.80 | 2157.60 |
| Urban | N | Low class customer | 5% | 175.50 | 2106.00 |
| Rural | N | Low class customer | 3% | 146.61 | 1759.32 |
| Urban | Y | Low class customer | 5% | 130.00 | 1560.00 |
| Urban | N | Middle class customer | 7% | 191.50 | 2298.00 |

STEP 3

- Create row level trigger for loan amount (Loan amt null = loan still processing).
- Create statement level trigger for cibil score.

INPUT

```
63  -- STEP 3
64  -- Create row level trigger for loan amount (Loan amt null = loan still processing).
65  -- Create statement level trigger for cibil score.
66
67  • DESCRIBE loan_status;
68
69  DELIMITER //
70  • CREATE TRIGGER Loan_amt_null
71  BEFORE INSERT ON Customer_interest_analysis
72  FOR EACH ROW
73  BEGIN
74  IF NEW.LoanAmount IS NULL THEN
75  SET NEW.LoanAmount = "Loan still processing";
76  END IF;
77  END //
78  DELIMITER ;
```

```
94  DELIMITER //
95  • CREATE TRIGGER Cibil_Customer_type
96  AFTER INSERT ON loan_status
97  FOR EACH ROW
98  BEGIN
99  IF NEW.`Cibil Score` > 900 THEN UPDATE Customer_interest_analysis SET Cibil_Customer_type = "High cibil score"
100 WHERE Loan_ID = NEW.Loan_ID;
101 ELSEIF NEW.`Cibil Score` > 750 THEN UPDATE Customer_interest_analysis SET Cibil_Customer_type = "No penalty"
102 WHERE Loan_ID = NEW.Loan_ID;
103 ELSEIF NEW.`Cibil Score` > 0 THEN UPDATE Customer_interest_analysis SET Cibil_Customer_type = "Penalty customers"
104 WHERE Loan_ID = NEW.Loan_ID;
105 ELSEIF NEW.`Cibil Score` <= 0 THEN UPDATE Customer_interest_analysis SET Cibil_Customer_type = "Reject customers"
106 WHERE Loan_ID = NEW.Loan_ID;
107 END IF;
108 END //
109 DELIMITER ;
```

OUTPUT

| | Monthly_interest_percentage_criteria | Monthly_interest_amount | Annual_interest_amount | LoanAmount ▲ | Loan_Amount_Term | Cibil Score | Cibil_Customer_type |
|---|--------------------------------------|-------------------------|------------------------|--------------|------------------|-------------|---------------------|
| | 3% | 4.50 | 54.00 | 135 | 360 | 249 | Penalty customers |
| | 2.5% | 5.25 | 63.00 | 98 | 360 | 71 | Penalty customers |
| | 5% | 20.80 | 249.60 | 350 | 180 | 760 | No penalty |
| | 3% | 19.35 | 232.20 | 113 | 480 | 261 | Penalty customers |
| | 3% | 20.22 | 242.64 | 168 | 360 | 582 | Penalty customers |
| | 5% | 50.00 | 600.00 | 110 | 360 | 399 | Penalty customers |
| | 3% | 30.75 | 369.00 | 112 | 360 | 229 | Penalty customers |
| | 3% | 30.75 | 369.00 | 216 | 360 | 664 | Penalty customers |
| | 5% | 64.95 | 779.40 | 17 | 120 | 564 | Penalty customers |
| | 5% | 68.90 | 826.80 | 167 | 360 | 309 | Penalty customers |
| | 5% | 72.10 | 865.20 | 35 | 360 | 521 | Penalty customers |
| | 2.5% | 37.50 | 450.00 | 103 | 360 | 459 | Penalty customers |
| ► | 5% | 76.90 | 922.80 | 30 | 360 | 142 | Penalty customers |

INPUT

STEP 4

- Then delete the reject and loan still processing customers.
- Update loan as integers.
- Create all the above fields as a table.
- Table name - loan cibil score status details.

```
777      -- STEP 4
778      -- Then delete the reject and loan still processing customers.
779      -- Update loan as integers.
780      -- Create all the above fields as a table.
781      -- Table name - loan cibil score status details.
782
783      • DELETE FROM customer_interest_analysis
784        WHERE LoanAmount = "Loan still processing" OR
785        Cibil_Customer_type = "Reject customers";
786
787      • ALTER TABLE customer_interest_analysis
788        MODIFY LoanAmount INT;
789
790      • CREATE TABLE Loan_cibil_score_status_details
791        SELECT I.*, D.Gender, D.Age
792        FROM customer_interest_analysis I
793        INNER JOIN customer_det D
794        ON I.Loan ID = D.Loan ID;
```

OUTPUT

| Monthly_interest_percentage_criteria | Monthly_interest_amount | Annual_interest_amount | LoanAmount | Loan_Amount_Term | Cibil Score | Cibil_Customer_type |
|--------------------------------------|-------------------------|------------------------|------------|------------------|-------------|---------------------|
| 3% | 4.50 | 54.00 | 135 | 360 | 249 | Penalty customers |
| 2.5% | 5.25 | 63.00 | 98 | 360 | 71 | Penalty customers |
| 3% | 19.35 | 232.20 | 113 | 480 | 261 | Penalty customers |
| 3% | 20.22 | 242.64 | 168 | 360 | 582 | Penalty customers |
| 5% | 50.00 | 600.00 | 110 | 360 | 399 | Penalty customers |
| 3% | 30.75 | 369.00 | 112 | 360 | 229 | Penalty customers |
| 5% | 64.95 | 779.40 | 17 | 120 | 564 | Penalty customers |
| 5% | 68.90 | 826.80 | 167 | 360 | 309 | Penalty customers |
| 5% | 72.10 | 865.20 | 35 | 360 | 521 | Penalty customers |
| 2.5% | 37.50 | 450.00 | 103 | 360 | 459 | Penalty customers |
| 5% | 76.90 | 922.80 | 30 | 360 | 142 | Penalty customers |
| 5% | 80.00 | 960.00 | 239 | 360 | 108 | Penalty customers |
| 5% | 81.25 | 975.00 | 96 | 360 | 53 | Penalty customers |
| 2.5% | 41.70 | 500.40 | 201 | 360 | 310 | Penalty customers |
| 2.5% | 43.98 | 527.70 | 131 | 360 | 213 | Penalty customers |
| 5% | 90.00 | 1080.00 | 47 | 360 | 472 | Penalty customers |
| 5% | 90.00 | 1080.00 | 93 | 360 | 918 | High cibil score |
| 5% | 90.45 | 1085.40 | 90 | 360 | 216 | Penalty customers |
| 5% | 90.55 | 1086.60 | 54 | 360 | 592 | Penalty customers |
| 3% | 54.60 | 655.20 | 95 | 360 | 258 | Penalty customers |

STEP 5

- Update gender and age based on customer id.

INPUT

```
796      -- STEP 5
797      -- Update gender and age based on customer id.
798
799  •    SELECT * FROM Loan_cibil_score_status_details;
```

| Monthly_interest_amount | Annual_interest_amount | LoanAmount | Loan_Amount_Term | Cibil Score | Cibil_Customer_type | Gender | Age |
|-------------------------|------------------------|------------|------------------|-------------|---------------------|--------|-----|
| 4.50 | 54.00 | 135 | 360 | 249 | Penalty customers | Male | 39 |
| 5.25 | 63.00 | 98 | 360 | 71 | Penalty customers | Female | 42 |
| 19.35 | 232.20 | 113 | 480 | 261 | Penalty customers | Female | 44 |
| 20.22 | 242.64 | 168 | 360 | 582 | Penalty customers | Male | 69 |
| 50.00 | 600.00 | 110 | 360 | 399 | Penalty customers | Male | 69 |
| 30.75 | 369.00 | 112 | 360 | 229 | Penalty customers | Male | 53 |
| 64.95 | 779.40 | 17 | 120 | 564 | Penalty customers | Male | 31 |
| 68.90 | 826.80 | 167 | 360 | 309 | Penalty customers | Female | 45 |
| 72.10 | 865.20 | 35 | 360 | 521 | Penalty customers | Male | 25 |
| 37.50 | 450.00 | 103 | 360 | 459 | Penalty customers | Female | 69 |
| 76.90 | 922.80 | 30 | 360 | 142 | Penalty customers | Male | 56 |
| 80.00 | 960.00 | 239 | 360 | 108 | Penalty customers | Male | 41 |
| 81.25 | 975.00 | 96 | 360 | 53 | Penalty customers | Male | 48 |
| 41.70 | 500.40 | 201 | 360 | 310 | Penalty customers | Male | 66 |
| 43.98 | 527.70 | 131 | 360 | 213 | Penalty customers | Male | 41 |
| 90.00 | 1080.00 | 47 | 360 | 472 | Penalty customers | Male | 56 |
| 90.00 | 1080.00 | 93 | 360 | 918 | High cibil score | Male | 55 |
| 90.45 | 1085.40 | 90 | 360 | 216 | Penalty customers | Male | 30 |
| 90.55 | 1086.60 | 54 | 360 | 592 | Penalty customers | Female | 32 |
| 54.60 | 655.20 | 95 | 360 | 258 | Penalty customers | Male | 70 |

OUTPUT

FINAL RESULT

OUTPUT 1

Join all the 5 tables without repeating the fields.

INPUT

```
801      -- OUTPUT 1
802      -- Join all the 5 tables without repeating the fields.
803
804 •    CREATE TABLE OPT_1_1
805      SELECT L.*, D.Customer_name, D.Married, D.Education, D.Self_Employed,D.Region_id
806      FROM Loan_cibil_score_status_details L
807      INNER JOIN customer_det D
808      ON L.Loan_Id = D.Loan_Id;
812 •    CREATE TABLE OPT_1_2
813      SELECT O.*, S.Postal_Code, S.Segment, S.State
814      FROM OPT_1_1 O
815      INNER JOIN country_state S
816      ON O.Customer_name = S.Customer_name;
817
818 •    SELECT * FROM OPT_1_2;
819
820 •    CREATE TABLE OUTPUT_1
821      SELECT O.*,R.Region
822      FROM OPT_1_2 O
823      INNER JOIN region_info R
824      ON O.Region_id = R.Region_id;
```


OUTPUT

| | Loan_ID | Customer ID | ApplicantIncome | CoapplicantIncome | Property_Area | Loan_Status | Customer_Criteria | Monthly_interest_percentage_criteria | Monthly_interest |
|---|----------|-------------|-----------------|-------------------|---------------|-------------|-----------------------|--------------------------------------|------------------|
| ▶ | LP001003 | IP43002 | 4583 | 1508 | Rural | N | Low class customer | 3% | 137.49 |
| | LP001005 | IP43003 | 3000 | 0 | Urban | Y | Low class customer | 5% | 150.00 |
| | LP001006 | IP43004 | 2583 | 2358 | Urban | Y | Low class customer | 5% | 129.15 |
| | LP001008 | IP43005 | 6000 | 0 | Urban | Y | Middle class customer | 7% | 150.00 |
| | LP001011 | IP43006 | 5417 | 4196 | Urban | Y | Middle class customer | 7% | 135.43 |
| | LP001013 | IP43007 | 2333 | 1516 | Urban | Y | Low class customer | 5% | 116.65 |
| | LP001014 | IP43008 | 3036 | 2504 | Semiurban | N | Low class customer | 2.5% | 75.90 |
| | LP001018 | IP43009 | 4006 | 1526 | Urban | Y | Low class customer | 5% | 200.30 |
| | LP001020 | IP43010 | 12841 | 10968 | Semiurban | N | Grade B customer | 7% | 321.03 |
| | LP001024 | IP43011 | 3200 | 700 | Urban | Y | Low class customer | 5% | 160.00 |
| | LP001027 | IP43012 | 2500 | 1840 | Urban | Y | Low class customer | 5% | 125.00 |
| | LP001028 | IP43013 | 3073 | 8106 | Urban | Y | Low class customer | 5% | 153.65 |
| | LP001029 | IP43014 | 1853 | 2840 | Rural | N | Low class customer | 3% | 55.59 |
| | LP001030 | IP43015 | 1299 | 1086 | Urban | Y | Low class customer | 5% | 64.95 |
| | LP001032 | IP43016 | 4950 | 0 | Urban | Y | Low class customer | 5% | 247.50 |
| | LP001034 | IP43017 | 3596 | 0 | Urban | Y | Low class customer | 5% | 179.80 |
| | LP001036 | IP43018 | 3510 | 0 | Urban | N | Low class customer | 5% | 175.50 |
| | LP001038 | IP43019 | 4887 | 0 | Rural | N | Low class customer | 3% | 146.61 |
| | LP001041 | IP43020 | 2600 | 3500 | Urban | Y | Low class customer | 5% | 130.00 |
| | LP001043 | IP43021 | 7660 | 0 | Urban | N | Middle class customer | 7% | 191.50 |

OUTPUT 3

Filter high cibil score.

INPUT

```
846      -- OUTPUT 3
847      -- Filter high cibil score.
848
849 •     SELECT * FROM OUTPUT_1
850      WHERE Cibil_Customer_type = "High cibil score";
```

OUTPUT

| Cibil_Customer_type | Gender | Age | Customer_name | Married | Education | Self_Employed | Region_id | Postal_Code | Segment | State | Region |
|---------------------|--------|-----|-------------------|---------|--------------|---------------|-----------|-------------|-------------|--------------|--------|
| High cibil score | Male | 20 | Chad Sievert | Yes | Not Graduate | Yes | 13.2 | 90004 | Consumer | California | West |
| High cibil score | Male | 69 | Corey Roper | Yes | Graduate | Yes | 13.4 | 8701 | Home Office | New Jersey | East |
| High cibil score | Male | 67 | Sung Pak | Yes | Graduate | Yes | 13.4 | 19143 | Corporate | Pennsylvania | East |
| High cibil score | Male | 61 | Carlos Soltero | No | Graduate | Yes | 13.3 | 60610 | Consumer | Illinois | North |
| High cibil score | Male | 62 | Mathew Reese | No | Not Graduate | Yes | 13.4 | 19140 | Home Office | Pennsylvania | East |
| High cibil score | Male | 36 | Sample Compa... | Yes | Graduate | Yes | 13.4 | 6360 | Home Office | Connecticut | East |
| High cibil score | Female | 28 | Damala Kotsonis | Yes | Graduate | Yes | 13.2 | 93905 | Corporate | California | West |
| High cibil score | Male | 47 | Keith Dawkins | Yes | Graduate | Yes | 13.4 | 10009 | Corporate | New York | East |
| High cibil score | Male | 26 | Corinna Mitchell | Yes | Graduate | Yes | 13.2 | 90008 | Home Office | California | West |
| High cibil score | Male | 66 | Darrin Van Huff | Yes | Graduate | No | 13.2 | 90036 | Corporate | California | West |
| High cibil score | Male | 28 | Emily Burns | Yes | Graduate | No | 13.2 | 84057 | Consumer | Utah | West |
| High cibil score | Male | 23 | Odella Nelson | Yes | Graduate | No | 13.3 | 55122 | Corporate | Minnesota | North |
| High cibil score | Male | 59 | Ted Butterfield | Yes | Graduate | No | 13.4 | 12180 | Consumer | New York | East |
| High cibil score | Male | 57 | Troy Staebel | Yes | Not Graduate | No | 13.2 | 85023 | Consumer | Arizona | West |
| High cibil score | Female | 49 | Sally Hughsby | No | Graduate | No | 13.2 | 94122 | Corporate | California | West |
| High cibil score | Male | 61 | Robert Marley | Yes | Graduate | No | 13.2 | 71203 | Home Office | Louisiana | West |
| High cibil score | Male | 43 | Frank Merwin | Yes | Not Graduate | No | 13.2 | 90032 | Home Office | California | West |
| High cibil score | Male | 40 | Laurel Elliston | Yes | Graduate | No | 13.2 | 90604 | Consumer | California | West |
| High cibil score | Female | 36 | Roy Collins | Yes | Graduate | No | 13.3 | 60610 | Consumer | Illinois | North |
| High cibil score | Female | 39 | Christine Abelman | No | Graduate | No | 13.4 | 45231 | Corporate | Ohio | East |

OUTPUT 4

Filter home office and corporate.

INPUT

```
852      -- OUTPUT 4
853      -- Filter home office and corporate.
854
855 •    SELECT * FROM OUTPUT_1
856      WHERE Segment IN ("Home Office","Corporate");
```

| Cibil_Customer_type | Gender | Age | Customer_name | Married | Education | Self_Employed | Region_id | Postal_Code | Segment | State | Region |
|---------------------|--------|-----|-----------------|---------|--------------|---------------|-----------|-------------|-------------|--------------|--------|
| Penalty customers | Male | 45 | Janet Molinari | Yes | Graduate | Yes | 13.4 | 10024 | Corporate | New York | East |
| Penalty customers | Male | 50 | Justin Ellison | Yes | Not Graduate | Yes | 13.3 | 53132 | Corporate | Wisconsin | North |
| Penalty customers | Male | 46 | Neil Knudson | Yes | Not Graduate | Yes | 13.2 | 98105 | Home Office | Washington | West |
| High cibil score | Male | 69 | Corey Roper | Yes | Graduate | Yes | 13.4 | 8701 | Home Office | New Jersey | East |
| No penalty | Male | 21 | Ben Peterman | No | Graduate | Yes | 13.2 | 80004 | Corporate | Colorado | West |
| High cibil score | Male | 67 | Sung Pak | Yes | Graduate | Yes | 13.4 | 19143 | Corporate | Pennsylvania | East |
| Penalty customers | Male | 69 | Don Jones | Yes | Graduate | Yes | 13.2 | 37130 | Corporate | Tennessee | West |
| Penalty customers | Male | 46 | Shirley Daniels | Yes | Not Graduate | Yes | 13.4 | 10801 | Home Office | New York | East |
| Penalty customers | Male | 26 | Joni Sundaresam | Yes | Graduate | Yes | 13.3 | 60068 | Home Office | Illinois | North |
| No penalty | Male | 32 | Maya Herman | Yes | Graduate | Yes | 13.4 | 11757 | Corporate | New York | East |
| Penalty customers | Male | 41 | Maribeth Yedwab | No | Graduate | Yes | 13.2 | 80134 | Corporate | Colorado | West |
| Penalty customers | Male | 30 | Nat Gilpin | Yes | Graduate | Yes | 13.4 | 10011 | Corporate | New York | East |
| Penalty customers | Male | 21 | Sylvia Foulston | No | Graduate | Yes | 13.3 | 48126 | Corporate | Michigan | North |
| No penalty | Male | 41 | Chuck Clark | No | Graduate | Yes | 13.3 | 47201 | Home Office | Indiana | North |
| High cibil score | Male | 62 | Mathew Reese | No | Not Graduate | Yes | 13.4 | 19140 | Home Office | Pennsylvania | East |
| Penalty customers | Male | 66 | Eudokia Martin | Yes | Graduate | Yes | 13.2 | 90036 | Corporate | California | West |
| Penalty customers | Male | 28 | Sanjit Jacobs | Yes | Graduate | Yes | 13.4 | 8901 | Home Office | New Jersey | East |
| No penalty | Male | 25 | Peter McVee | Yes | Graduate | Yes | 13.3 | 48227 | Home Office | Michigan | North |
| Penalty customers | Female | 23 | George Bell | Yes | Graduate | Yes | 13.4 | 13021 | Corporate | New York | East |
| Penalty customers | Male | 28 | Justin Ritter | Yes | Graduate | Yes | 13.4 | 45503 | Corporate | Ohio | East |

OUTPUT

OUTPUT 5

Store all the outputs as procedure.

INPUT

```
858      -- OUTPUT 5
859      -- Store all the outputs as procedure.
860
861      DELIMITER //
862 •    CREATE PROCEDURE GOAL()
863      ○ BEGIN
864          SELECT * FROM OUTPUT_1;
865          SELECT * FROM country_state S
866          RIGHT JOIN region_info R
867          ON S.Region_id = R.Region_Id
868          WHERE Customer_id IS NULL;
869          SELECT * FROM OUTPUT_1
870          WHERE Cibil_Customer_type = "High cibil score";
871          SELECT * FROM OUTPUT_1
872          WHERE Segment IN ("Home Office", "Corporate");
873      END //
874      DELIMITER ;
875
876 •    CALL GOAL();
```

OUTPUT

RESULT 1

| | Loan_ID | Customer ID | ApplicantIncome | CoapplicantIncome | Property_Area | Loan_Status | Customer_Criteria | Monthly_interest_percentage_criteria | Monthly_interest |
|---|----------|-------------|-----------------|-------------------|---------------|-------------|-----------------------|--------------------------------------|------------------|
| ▶ | LP001003 | IP43002 | 4583 | 1508 | Rural | N | Low class customer | 3% | 137.49 |
| | LP001005 | IP43003 | 3000 | 0 | Urban | Y | Low class customer | 5% | 150.00 |
| | LP001006 | IP43004 | 2583 | 2358 | Urban | Y | Low class customer | 5% | 129.15 |
| | LP001008 | IP43005 | 6000 | 0 | Urban | Y | Middle class customer | 7% | 150.00 |
| | LP001011 | IP43006 | 5417 | 4196 | Urban | Y | Middle class customer | 7% | 135.43 |
| | LP001013 | IP43007 | 2333 | 1516 | Urban | Y | Low class customer | 5% | 116.65 |
| | LP001014 | IP43008 | 3036 | 2504 | Semiurban | N | Low class customer | 2.5% | 75.90 |
| | LP001018 | IP43009 | 4006 | 1526 | Urban | Y | Low class customer | 5% | 200.30 |
| | LP001020 | IP43010 | 12841 | 10968 | Semiurban | N | Grade B customer | 7% | 321.03 |
| | LP001024 | IP43011 | 3200 | 700 | Urban | Y | Low class customer | 5% | 160.00 |
| | LP001027 | IP43012 | 2500 | 1840 | Urban | Y | Low class customer | 5% | 125.00 |
| | LP001028 | IP43013 | 3073 | 8106 | Urban | Y | Low class customer | 5% | 153.65 |
| | LP001029 | IP43014 | 1853 | 2840 | Rural | N | Low class customer | 3% | 55.59 |
| | LP001030 | IP43015 | 1299 | 1086 | Urban | Y | Low class customer | 5% | 64.95 |
| | LP001032 | IP43016 | 4950 | 0 | Urban | Y | Low class customer | 5% | 247.50 |
| | LP001034 | IP43017 | 3596 | 0 | Urban | Y | Low class customer | 5% | 179.80 |
| | LP001036 | IP43018 | 3510 | 0 | Urban | N | Low class customer | 5% | 175.50 |
| | LP001038 | IP43019 | 4887 | 0 | Rural | N | Low class customer | 3% | 146.61 |
| | LP001041 | IP43020 | 2600 | 3500 | Urban | Y | Low class customer | 5% | 130.00 |
| | LP001043 | IP43021 | 7660 | 0 | Urban | N | Middle class customer | 7% | 191.50 |
| | LP001046 | IP43022 | 5955 | 5625 | Urban | Y | Middle class customer | 7% | 148.88 |
| | LP001047 | IP43023 | 2600 | 1911 | Semiurban | N | Low class customer | 2.5% | 65.00 |
| | LP001050 | IP43024 | 3365 | 1917 | Rural | N | Low class customer | 3% | 100.95 |

Result 25 × Result 26 Result 27 Result 28

RESULT 2

| | Customer_id | Load Id | Customer_name | Region_id | Postal_Code | Segment | State | Region | Region_Id |
|---|-------------|---------|---------------|-----------|-------------|---------|-------|--------|-----------|
| ▶ | NULL | NULL | NULL | NULL | NULL | NULL | NULL | South | 13.1 |

RESULT 3

| Cibil_Customer_type | Gender | Age | Customer_name | Married | Education | Self_Employed | Region_id | Postal_Code | Segment | State | Region |
|---------------------|--------|-----|-------------------|---------|--------------|---------------|-----------|-------------|-------------|--------------|--------|
| High cibil score | Male | 20 | Chad Sievert | Yes | Not Graduate | Yes | 13.2 | 90004 | Consumer | California | West |
| High cibil score | Male | 69 | Corey Roper | Yes | Graduate | Yes | 13.4 | 8701 | Home Office | New Jersey | East |
| High cibil score | Male | 67 | Sung Pak | Yes | Graduate | Yes | 13.4 | 19143 | Corporate | Pennsylvania | East |
| High cibil score | Male | 61 | Carlos Soltero | No | Graduate | Yes | 13.3 | 60610 | Consumer | Illinois | North |
| High cibil score | Male | 62 | Mathew Reese | No | Not Graduate | Yes | 13.4 | 19140 | Home Office | Pennsylvania | East |
| High cibil score | Male | 36 | Sample Compa... | Yes | Graduate | Yes | 13.4 | 6360 | Home Office | Connecticut | East |
| High cibil score | Female | 28 | Damala Kotsonis | Yes | Graduate | Yes | 13.2 | 93905 | Corporate | California | West |
| High cibil score | Male | 47 | Keith Dawkins | Yes | Graduate | Yes | 13.4 | 10009 | Corporate | New York | East |
| High cibil score | Male | 26 | Corinna Mitchell | Yes | Graduate | Yes | 13.2 | 90008 | Home Office | California | West |
| High cibil score | Male | 66 | Darrin Van Huff | Yes | Graduate | No | 13.2 | 90036 | Corporate | California | West |
| High cibil score | Male | 28 | Emily Burns | Yes | Graduate | No | 13.2 | 84057 | Consumer | Utah | West |
| High cibil score | Male | 23 | Odella Nelson | Yes | Graduate | No | 13.3 | 55122 | Corporate | Minnesota | North |
| High cibil score | Male | 59 | Ted Butterfield | Yes | Graduate | No | 13.4 | 12180 | Consumer | New York | East |
| High cibil score | Male | 57 | Troy Staebel | Yes | Not Graduate | No | 13.2 | 85023 | Consumer | Arizona | West |
| High cibil score | Female | 49 | Sally Hughsby | No | Graduate | No | 13.2 | 94122 | Corporate | California | West |
| High cibil score | Male | 61 | Robert Marley | Yes | Graduate | No | 13.2 | 71203 | Home Office | Louisiana | West |
| High cibil score | Male | 43 | Frank Merwin | Yes | Not Graduate | No | 13.2 | 90032 | Home Office | California | West |
| High cibil score | Male | 40 | Laurel Elliston | Yes | Graduate | No | 13.2 | 90604 | Consumer | California | West |
| High cibil score | Female | 36 | Roy Collins | Yes | Graduate | No | 13.3 | 60610 | Consumer | Illinois | North |
| High cibil score | Female | 39 | Christine Abelman | No | Graduate | No | 13.4 | 45231 | Corporate | Ohio | East |

| Cibil_Customer_type | Gender | Age | Customer_name | Married | Education | Self_Employed | Region_id | Postal_Code | Segment | State | Region |
|---------------------|--------|-----|-----------------|---------|--------------|---------------|-----------|-------------|-------------|--------------|--------|
| Penalty customers | Male | 45 | Janet Molinari | Yes | Graduate | Yes | 13.4 | 10024 | Corporate | New York | East |
| Penalty customers | Male | 50 | Justin Ellison | Yes | Not Graduate | Yes | 13.3 | 53132 | Corporate | Wisconsin | North |
| Penalty customers | Male | 46 | Neil Knudson | Yes | Not Graduate | Yes | 13.2 | 98105 | Home Office | Washington | West |
| High cibil score | Male | 69 | Corey Roper | Yes | Graduate | Yes | 13.4 | 8701 | Home Office | New Jersey | East |
| No penalty | Male | 21 | Ben Peterman | No | Graduate | Yes | 13.2 | 80004 | Corporate | Colorado | West |
| High cibil score | Male | 67 | Sung Pak | Yes | Graduate | Yes | 13.4 | 19143 | Corporate | Pennsylvania | East |
| Penalty customers | Male | 69 | Don Jones | Yes | Graduate | Yes | 13.2 | 37130 | Corporate | Tennessee | West |
| Penalty customers | Male | 46 | Shirley Daniels | Yes | Not Graduate | Yes | 13.4 | 10801 | Home Office | New York | East |
| Penalty customers | Male | 26 | Joni Sundaresam | Yes | Graduate | Yes | 13.3 | 60068 | Home Office | Illinois | North |
| No penalty | Male | 32 | Maya Herman | Yes | Graduate | Yes | 13.4 | 11757 | Corporate | New York | East |
| Penalty customers | Male | 41 | Maribeth Yedwab | No | Graduate | Yes | 13.2 | 80134 | Corporate | Colorado | West |
| Penalty customers | Male | 30 | Nat Gilpin | Yes | Graduate | Yes | 13.4 | 10011 | Corporate | New York | East |
| Penalty customers | Male | 21 | Sylvia Foulston | No | Graduate | Yes | 13.3 | 48126 | Corporate | Michigan | North |
| No penalty | Male | 41 | Chuck Clark | No | Graduate | Yes | 13.3 | 47201 | Home Office | Indiana | North |
| High cibil score | Male | 62 | Mathew Reese | No | Not Graduate | Yes | 13.4 | 19140 | Home Office | Pennsylvania | East |
| Penalty customers | Male | 66 | Eudokia Martin | Yes | Graduate | Yes | 13.2 | 90036 | Corporate | California | West |
| Penalty customers | Male | 28 | Sanjit Jacobs | Yes | Graduate | Yes | 13.4 | 8901 | Home Office | New Jersey | East |
| No penalty | Male | 25 | Peter McVee | Yes | Graduate | Yes | 13.3 | 48227 | Home Office | Michigan | North |
| Penalty customers | Female | 23 | George Bell | Yes | Graduate | Yes | 13.4 | 13021 | Corporate | New York | East |
| Penalty customers | Male | 28 | Justin Ritter | Yes | Graduate | Yes | 13.4 | 45503 | Corporate | Ohio | East |

RESULT 4