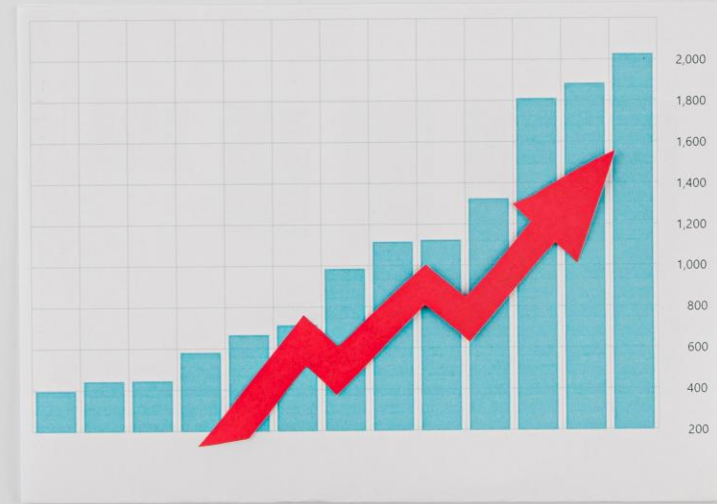


# SQL PROJECT

## LOAN MANAGEMENT SYSTEM ANALYSIS

-Balasaravanan kannan







## 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

```
798 -- STEP 5
799 -- Update gender and age based on customer id.
800
801 • SELECT * FROM customer_det;
802
803 • UPDATE customer_det
804   SET GENDER = CASE
805     WHEN `Customer ID` = "IP43006" THEN "Female"
806     WHEN `Customer ID` = "IP43016" THEN "Female"
807     WHEN `Customer ID` = "IP43018" THEN "Male"
808     WHEN `Customer ID` = "IP43038" THEN "Male"
809     WHEN `Customer ID` = "IP43508" THEN "Female"
810     WHEN `Customer ID` = "IP43577" THEN "Female"
811     WHEN `Customer ID` = "IP43589" THEN "Female"
812     WHEN `Customer ID` = "IP43593" THEN "Female"
813     ELSE Gender
814   END;
816 • UPDATE customer_det
817   SET Age = CASE
818     WHEN `Customer ID` = "IP43007" THEN 45
819     WHEN `Customer ID` = "IP43009" THEN 32
820     ELSE Age
821   END;
```

# OUTPUT

	Customer ID	Customer_name	Gender	Age	Married	Education	Self_Employed	Loan_Id	Region_id
▶	IP43003	Sean O'Donnell	Male	20	Yes	Graduate	Yes	LP001005	13.2
	IP43006	Irene Maddox	Female	66	Yes	Graduate	Yes	LP001011	13.2
	IP43026	Janet Molinari	Male	45	Yes	Graduate	Yes	LP001066	13.4
	IP43033	Joel Eaton	Male	56	No	Graduate	Yes	LP001097	13.2
	IP43045	Katherine Ducich	Male	63	Yes	Not Graduate	Yes	LP001136	13.2
	IP43055	Dave Kipp	Female	30	Yes	Graduate	Yes	LP001186	13.2
	IP43063	Lena Creighton	Male	48	Yes	Not Graduate	Yes	LP001207	13.2
	IP43069	Justin Ellison	Male	50	Yes	Not Graduate	Yes	LP001238	13.3
	IP43072	Neil Knudson	Male	46	Yes	Not Graduate	Yes	LP001245	13.2
	IP43075	Ted Trevino	Male	67	Yes	Graduate	Yes	LP001253	13.2
	IP43078	Max Jones	Male	69	Yes	Graduate	Yes	LP001259	13.2
	IP43080	Chad Sievert	Male	20	Yes	Not Graduate	Yes	LP001264	13.2
	IP43082	Shirley Jackson	Male	44	Yes	Graduate	Yes	LP001266	13.3
	IP43114	Craig Carreira	Female	58	No	Graduate	Yes	LP001392	13.4
	IP43129	Corey Roper	Male	69	Yes	Graduate	Yes	LP001451	13.4
	IP43131	Ben Peterman	Male	21	No	Graduate	Yes	LP001469	13.2
	IP43134	Sung Pak	Male	67	Yes	Graduate	Yes	LP001482	13.4
	IP43138	Don Jones	Male	69	Yes	Graduate	Yes	LP001491	13.2
	IP43143	Clay Cheatham	Male	27	No	Graduate	Yes	LP001504	13.2
	IP43152	Arthur Gainer	Male	53	Yes	Graduate	Yes	LP001529	13.2
	IP43175	Shirley Daniels	Male	46	Yes	Not Graduate	Yes	LP001603	13.4
	IP43186	Joni Sundaresam	Male	26	Yes	Graduate	Yes	LP001640	13.3
	IP43187	Maya Herman	Male	32	Yes	Graduate	Yes	LP001641	13.4
	IP43189	Jeremy Ellison	Male	69	Yes	Graduate	Yes	LP001644	13.4



# 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