# MY SQL REPORT ON LOAN MANAGEMENT SYSTEM PROJECT :1 BY S.VIGNESH

S.VIGNESH

ΒY

PROJECT :1

# **LOAN MANAGEMENT SYSTEM**

	CONTENTS	PAGE.NO
S.NO		
1.	Customer income status	
	1.1 Import table: customer income status	
	1.2 Set customer criteria	
	1.3 Create new field	
	-Monthly interest amount	
	-Annual interest amount	
	**(Create this into a new table and connect with sheet 2 (loan	
	status) for output purpose)**	
	1.4 Table name: customer interest analysis	
2.	LOAN STATUS	
	2.1 Create row-level trigger for loan amount	
	2.2 Create statement-level trigger for CIBIL score	
	2.3 update loan as integers	
	2.4 Table name : loan CIBIL score status details.	
3.	CUSTOMER INFO	
	3.1 Import table : customer info	
	3.2 Update gender and age based on customer ID	
4-5.	COUNTRY STATE AND REGION	
	4.1 Import table: country state and region	
	4.2 Join all 5 tables without repeating fields	
	4.3 Exercise output	
	1. output: combined table	
	2. output: mismatch details	
	3. output : home office and corporate	
	PROCEDURES	
	Create procedures to store all outputs	
	2. Indexing for speed optimization	

# **LOAN STATUS**

#### Sheet 2

Create row level trigger for loan amt

-- CREATE TABLE FOR LOAN STATUS

```
create table loan_status
(loan_id varchar(50),
customer_id varchar(50),
loan_amount int,
loan_amount_term int,
cibil_score int,
primary key(customer_id));
```

-- CREATE TABLE FOR LOAN STATUS UPDATE

CREATE TABLE LOAN\_STATUS\_UPDATE (LOAN\_ID VARCHAR(45), LOAN\_AMOUNT VARCHAR (20), CIBIL\_SCORE INT, CIBIL\_SCORE\_STATUS VARCHAR(45), PRIMARY KEY (LOAN\_ID)); SHOW TABLES;

Loan amt null = loan still processing

2.1-- ROW LEVEL TRIGGER FOR LOAN AMOUNT

```
DELIMITER //
CREATE TRIGGER LOAN_AMOUNT_CHANGE
BEFORE INSERT ON LOAN_STATUS
FOR EACH ROW
BEGIN
IF NEW.LOAN_AMOUNT IS NULL THEN SET
NEW.LOAN_AMOUNT ='LOAN STILL PROCESSING';
END IF;
END //
DELIMITER;
```

#### Criteria

#### Create statement level trigger for cibil score

- Cibil score >900 high cibil score
- Cibil score >750 no penalty
- Cibil score >250 penalty customers
- Cibil score <= 0 reject customers (loan cannot apply)</li>

#### 2.2-- STATEMENT TRIGGER FOR CIBIL SCORE STATUS

**DELIMITER //** 

CREATE TRIGGER CIBIL SCORE UPDATE

AFTER INSERT ON LOAN STATUS

**FOR EACH ROW** 

**BEGIN** 

IF NEW.CIBIL SCORE >900 THEN

INSERT INTO LOAN STATUS UPDATE

(LOAN ID, LOAN AMOUNT, CIBIL SCORE, CIBIL SCORE STATUS) VALUES

(NEW.LOAN ID, NEW.LOAN AMOUNT, NEW.CIBIL SCORE, 'HIGH CIBIL SCORE');

**ELSEIF NEW.CIBIL SCORE >750 THEN** 

**INSERT INTO LOAN STATUS UPDATE** 

(LOAN ID, LOAN AMOUNT, CIBIL SCORE, CIBIL SCORE STATUS) VALUES

(NEW.LOAN ID, NEW.LOAN AMOUNT, NEW.CIBIL SCORE, 'NO PENALTY');

ELSEIF NEW.CIBIL SCORE >250 THEN

**INSERT INTO LOAN STATUS UPDATE** 

(LOAN ID, LOAN AMOUNT, CIBIL SCORE, CIBIL SCORE STATUS) VALUES

(NEW.LOAN ID, NEW.LOAN AMOUNT, NEW.CIBIL SCORE, 'PENALTY CUSTOMERS');

ELSE INSERT INTO LOAN STATUS UPDATE

(LOAN ID, LOAN AMOUNT, CIBIL SCORE, CIBIL SCORE STATUS) VALUES

(NEW.LOAN\_ID,NEW.LOAN\_AMOUNT,NEW.CIBIL\_SCORE,'REJECT CUSTOMER');

END IF;

END //

**DELIMITER**;

show TRIGGERS;

show TRIGGERS;

show TABLES;

select\*FROM LOAN STATUS;

select\*FROM LOAN\_STATUS UPDATE;

#### 2.3 UPDATE LOAN AMOUNT AS VARCHAR

ALTER TABLE LOAN\_STATUS\_UPDATE MODIFY LOAN\_AMOUNT varchar(50); describe LOAN\_STATUS;

insert into loan status values

('LP001002',	'IP43001',	Null,	360,	303),
('LP001003',	'IP43002',	128,	360,	920),
('LP001005',	'IP43003',	66,	360,	606),
('LP001006',	'IP43004',	120,	360,	851),
('LP001008',	'IP43005',	141,	360,	420),
('LP001011',	'IP43006',	267,	360,	173),

#### Criteria

#### -- delete FOR REJECT CUSTOMER AND LOAN STILL PROCESSING CUSTOMER

**DELETE FROM LOAN\_STATUS\_UPDATE** 

WHERE LOAN\_AMOUNT ='LOAN STILL PROCESSING' OR CIBIL\_SCORE\_STATUS ='REJECT CUSTOMERS';

select\*FROM LOAN\_STATUS\_UPDATE;

-- UPDATE LOAN AMOUNT AS INTEGER

ALTER TABLE LOAN\_STATUS\_UPDATE MODIFY LOAN\_AMOUNT INT;

#### - CREATE NEW TABLE LOAN CIBIL SCORE STATUS

CREATE TABLE LOAN\_CIBIL\_SCORE\_STATUS AS SELECT
A.LOAN\_ID,A.CUSTOMER\_ID,A.LOAN\_AMOUNT,A.LOAN\_AMOUNT\_TERM,A.CIBIL\_SCORE,
B.CIBIL\_SCORE\_STATUS

FROM LOAN\_STATUS A JOIN LOAN\_STATUS\_UPDATE B

ON A.LOAN\_ID = B.LOAN\_ID;

select\*FROM LOAN\_CIBIL\_SCORE\_STATUS;

#### 2.4-\*Table name - loan cibil score status details

	LOAN_ID	CUSTOMER_ID	LOAN_AMOUNT	LOAN_AMOUNT_TERM	CIBIL_SCORE	CIBIL_SCORE_STATUS
•	LP001003	IP43002	128	360	920	HIGH CIBIL SCORE
	LP001005	IP43003	66	360	606	PENALTY CUSTOMERS
	LP001006	IP43004	120	360	851	NO PENALTY
	LP001008	IP43005	141	360	420	PENALTY CUSTOMERS
	LP001011	IP43006	267	360	173	REJECT CUSTOMER
	LP001013	IP43007	95	360	650	PENALTY CUSTOMERS
	LP001014	IP43008	158	360	471	PENALTY CUSTOMERS
	LP001018	IP43009	168	360	863	NO PENALTY
	LP001020	IP43010	349	360	730	PENALTY CUSTOMERS

#### **Customer income status**

#### Sheet 1

#### 1.1 Import table from sheet 1- customer income status

select \* FROM CUSTOMER\_INCOME\_STATUS;

#### Criteria:1

#### 1.2 set customer criteria based on applicant income

Applicant income >15,000 = grade a

- Applicant income >9,000 = grade b
- Applicant income >5000 = middle class customer
- Otherwise low class

SELECT \*,IF(ApplicantIncome>15000,'GRADE A',
IF(ApplicantIncome>9000,'GRADE B',
IF(ApplicantIncome>5000,'MIDDLE CLASS CUSTOMER','LOW CLASS'))) AS
INCOME\_STATUS
FROM CUSTOMER INCOME STATUS;

Loan_ID	Customer_ID	ApplicantIncome	CoapplicantIncome	Property_Area	Loan_Status	INCOME_STATUS
LP001002	IP43001	5849	0	Urban	Υ	MIDDLE CLASS CUSTOMER
LP001003	IP43002	4583	1508	Rural	N	LOW CLASS
LP001005	IP43003	3000	0	Urban	Υ	LOW CLASS
LP001006	IP43004	2583	2358	Urban	Υ	LOW CLASS
LP001008	IP43005	6000	0	Urban	Υ	MIDDLE CLASS CUSTOMER
LP001011	IP43006	5417	4196	Urban	Υ	MIDDLE CLASS CUSTOMER
LP001013	IP43007	2333	1516	Urban	Υ	LOW CLASS
LP001014	IP43008	3036	2504	Semiurban	N	LOW CLASS
LP001018	IP43009	4006	1526	Urban	Υ	LOW CLASS

#### 1.3- (CREATE THIS AS NEW TABLE)

CREATE TABLE CUSTOMER\_STATUS\_INCOME AS SELECT

\*,IF(ApplicantIncome>15000,'GRADE A',

IF(ApplicantIncome>9000,'GRADE B',

IF(ApplicantIncome>5000,'MIDDLE CLASS CUSTOMER','LOW CLASS'))) AS INCOME\_STATUS

FROM CUSTOMER\_INCOME\_STATUS;

#### select\*FROM CUSTOMER\_STATUS\_INCOME;

	Loan_ID	Customer ID	ApplicantIncome	CoapplicantIncome	Property_Area	Loan_Status	CUSTOMER_STATUS_GRADE	CUSTOMER_MONTHLY_INTERSET
	LP001002	IP43001	5849	0	Urban	Υ	MIDDLE CLASS CUSTOMER	5.0
	LP001003	IP43002	4583	1508	Rural	N	LOW CLASS	7.0
	LP001005	IP43003	3000	0	Urban	Υ	LOW CLASS	7.0
	LP001006	IP43004	2583	2358	Urban	Υ	LOW CLASS	7.0
	LP001008	IP43005	6000	0	Urban	Υ	MIDDLE CLASS CUSTOMER	5.0
	LP001011	IP43006	5417	4196	Urban	Υ	MIDDLE CLASS CUSTOMER	5.0
	LP001013	IP43007	2333	1516	Urban	Υ	LOW CLASS	7.0
	LP001014	IP43008	3036	2504	Semiurban	N	LOW CLASS	7.0
CUS	TOMER STA	TUS INCOME 4	400C	1500	( Indiana	V	LOWLOLACC	7.0

#### -- MONTHLY INTEREST RATE

SELECT \*,IF(ApplicantIncome>5000 and Property\_Area = 'Rural',3,

IF(ApplicantIncome>5000 and Property\_Area = 'Semiurban',3.5,

IF(ApplicantIncome>5000 and Property\_Area = 'urban',5,

IF(ApplicantIncome>5000 and Property\_Area ='Semiurban',2.5,7)))) AS INCOME\_STATUS

FROM CUSTOMER INCOME STATUS;

Loan_ID	Customer_ID	ApplicantIncome	CoapplicantIncome	Property_Area	Loan_Status	INCOME_STATUS
LP001002	IP43001	5849	0	Urban	Y	5
LP001003	IP43002	4583	1508	Rural	N	7
LP001005	IP43003	3000	0	Urban	Y	7
LP001006	IP43004	2583	2358	Urban	Υ	7
LP001008	IP43005	6000	0	Urban	Υ	5
LP001011	IP43006	5417	4196	Urban	Υ	5
LP001013	IP43007	2333	1516	Urban	Υ	7
LP001014	IP43008	3036	2504	Semiurban	N	7
LP001018	IP43009	4006	1526	Urban	Υ	7
li o						

#### **Criteria**

#### Monthly interest percentage

- Applicant income <5000 rural=3%</li>
- Applicant income <5000 semi rural=3.5%</li>
- Applicant income <5000 urban=5%</li>
- Applicant income <5000 semi urban= 2.5%</li>
- Otherwise = 7%

#### -- NEW FIELD CREATION BASED ON INTEREST

#### CREATE TABLE CUSTOMER STATUS INCOME AS SELECT

\*,IF(ApplicantIncome>15000,'GRADE A',

IF(ApplicantIncome>9000, 'GRADE B',

IF(ApplicantIncome>5000, 'MIDDLE CLASS CUSTOMER', 'LOW CLASS'))) AS

CUSTOMER STATUS GRADE,

IF(ApplicantIncome>5000 and Property Area = 'Rural',3,

IF(ApplicantIncome>5000 and Property\_Area = 'Semiurban',3.5,

IF(ApplicantIncome>5000 and Property Area = 'urban',5,

IF(ApplicantIncome>5000 and Property Area ='Semiurban', 2.5, 7)))) AS

CUSTOMER MONTHLY INTERSET

FROM CUSTOMER\_INCOME\_STATUS;

#### select\*FROM CUSTOMER STATUS INCOME;

			o 1: 1:			CUSTOMED STATUS SPANS	CUSTOMED MONTHLY INTERPRET
Loan_ID	Customer ID	ApplicantIncome	CoapplicantIncome	Property_Area	Loan_Status	CUSTOMER_STATUS_GRADE	CUSTOMER_MONTHLY_INTERSET
LP001002	IP43001	5849	0	Urban	Υ	MIDDLE CLASS CUSTOMER	5.0
LP001003	IP43002	4583	1508	Rural	N	LOW CLASS	7.0
LP001005	IP43003	3000	0	Urban	Υ	LOW CLASS	7.0
LP001006	IP43004	2583	2358	Urban	Υ	LOW CLASS	7.0
LP001008	IP43005	6000	0	Urban	Υ	MIDDLE CLASS CUSTOMER	5.0
LP001011	IP43006	5417	4196	Urban	Υ	MIDDLE CLASS CUSTOMER	5.0
LP001013	IP43007	2333	1516	Urban	Υ	LOW CLASS	7.0
LP001014	IP43008	3036	2504	Semiurban	N	LOW CLASS	7.0
TOMED CT	TD42000	4000	1506	1 falana	v	LOWICIACO	7.0

#### -- MOYHLY INTEREST RATE

SELECT A.\*, B.LOAN\_AMOUNT,

(A.CUSTOMER\_MONTHLY\_INTERSET\* B.LOAN\_AMOUNT)/100 AS MONTHLY INTERST AMOUNT,

round(((A.CUSTOMER\_MONTHLY\_INTERSET\*B.LOAN\_AMOUNT)/100)\*12,2)AS
ANNUAL\_INTEREST\_AMOUNT

FROM CUSTOMER\_STATUS\_INCOME A JOIN LOAN\_CIBIL\_SCORE\_STATUS B ON A.LOAN\_ID = B.LOAN\_ID;

# -- MONTHLY AND ANNUAL INTEREST RATE AND (CREATE CUSTOMER INTEREST ANALYSIS TABLE)

CREATE TABLE CUSTOMER\_INTEREST\_ANALYSIS SELECT A.\*, B.LOAN\_AMOUNT,

(A.CUSTOMER\_MONTHLY\_INTERSET\* B.LOAN\_AMOUNT)/100 AS MONTHLY\_INTERST\_AMOUNT,

round(((A.CUSTOMER\_MONTHLY\_INTERSET\*B.LOAN\_AMOUNT)/100)\*12,2)AS
ANNUAL\_INTEREST\_AMOUNT

FROM CUSTOMER\_STATUS\_INCOME A JOIN LOAN\_CIBIL\_SCORE\_STATUS B ON A.LOAN\_ID = B.LOAN\_ID;

#### 1.4SELECT\* FROM CUSTOMER\_INTEREST\_ANALYSIS;

Г	me	CoapplicantIncome	Property_Area	Loan_Status	CUSTOMER_STATUS_GRADE	CUSTOMER_MONTHLY_INTERSET	LOAN_AMOUNT	MONTHLY_INTERST_AMOUNT	ANNUAL_INTEREST_AMOUNT
•		1508	Rural	N	LOW CLASS	7.0	128	8.96	107.52
		0	Urban	Υ	LOW CLASS	7.0	66	4.62	55.44
		2358	Urban	Υ	LOW CLASS	7.0	120	8.4	100.8
		0	Urban	Υ	MIDDLE CLASS CUSTOMER	5.0	141	7.05	84.6
		4196	Urban	Υ	MIDDLE CLASS CUSTOMER	5.0	267	13.35	160.2
		1516	Urban	Υ	LOW CLASS	7.0	95	6.65	79.8
		2504	Semiurban	N	LOW CLASS	7.0	158	11.06	132.72
		1526	Urban	Υ	LOW CLASS	7.0	168	11.76	141.12
	1		_						
CL	STOM	IER_INTEREST_ANAL	YS ×						

## customer info

#### SHEET:3

#### 3.1\*Import the table

3.2Update gender and age based on customer id

SELECT\*FROM CUSOTOMER\_INFO;

UPDATE CUSOTOMER\_INFO SET Gender = 'Female' where customer\_id ='IP43006';

UPDATE CUSOTOMER INFO SET Gender = 'Female' where customer id ='IP43016';

UPDATE CUSOTOMER INFO SET Gender = 'male' where customer id ='IP43018';

UPDATE CUSOTOMER INFO SET Gender = 'male' where customer id ='IP43038';

UPDATE CUSOTOMER INFO SET Gender = 'Female' where customer id ='IP43508';

UPDATE CUSOTOMER INFO SET Gender = 'Female' where customer id ='IP43577';

UPDATE CUSOTOMER\_INFO SET Gender = 'Female' where customer\_id ='IP43589';

UPDATE CUSOTOMER\_INFO SET Gender = 'Female' where customer\_id ='IP43593';

UPDATE CUSOTOMER\_INFO SET age = 45 where customer\_id ='IP43007';

UPDATE CUSOTOMER\_INFO SET age = 32 where customer\_id ='IP43009';

# country state and region

#### Sheet 4 and 5

4.1 Import the table

SELECT\* FROM country\_state;

SELECT \* FROM region\_info;

4.2-- task .1all the 5 table without repeating the fields

SELECT LOAN\_AMOUNT\_TERM,B.CIBIL\_SCORE,B.CIBIL\_SCORE\_STATUS,

C.CUSTOMER\_NAME,C.GENDER,C.AGE,C.MARRIED,C.EDUCATION,C.SELF\_EMPLOYED,A.\*,C.R EGION\_ID,

D.POSTAL\_CODE, D.SEGMENT, D.STATE, E.REGION

FROM customer interest analysis A

JOIN loan cibil score status B on A.customer id = B.customer id

JOIN cusotomer\_info C on A.customer\_id = C.customer\_id

JOIN country\_state D on A.customer\_id = D.customer\_id

join region info E on C.region id = E.region id;

LOAN_AMOUNT_TERM	CIBIL_SCORE	CIBIL_SCORE_STATUS	CUSTOMER_NAME	GENDER	AGE	MARRIED	EDUCATION	SELF_EMPLOYED	Loan_ID	Customer_ID	ApplicantIncome
360	920	HIGH CIBIL SCORE	Darrin Van Huff	Male	66	Yes	Graduate	No	LP001003	IP43002	4583
360	606	PENALTY CUSTOMERS	Sean O'Donnell	Male	20	Yes	Graduate	Yes	LP001005	IP43003	3000
360	851	NO PENALTY	Brosina Hoffman	Male	46	Yes	Not Graduate	No	LP001006	IP43004	2583
360	420	PENALTY CUSTOMERS	Andrew Allen	Male	18	No	Graduate	No	LP001008	IP43005	6000
360	173	REJECT CUSTOMER	Irene Maddox	Female	66	Yes	Graduate	Yes	LP001011	IP43006	5417
360	650	PENALTY CUSTOMERS	Harold Pawlan	Male	45	Yes	Not Graduate	No	LP001013	IP43007	2333
360	471	PENALTY CUSTOMERS	Pete Kriz	Male	41	Yes	Graduate	No	LP001014	IP43008	3036
360	863	NO PENALTY	Alejandro Grove	Male	32	Yes	Graduate	No	LP001018	IP43009	4006

ApplicantIncome	CoapplicantIncome	Property_Area	Loan_Status	CUSTOMER_STATUS_GRADE	CUSTOMER_MONTHLY_INTERSET	LOAN_AMOUNT	MONTHLY_INTERST_AMOUNT	ANNUAL_INTER
4583	1508	Rural	N	LOW CLASS	7.0	128	8.96	107.52
3000	0	Urban	Υ	LOW CLASS	7.0	66	4.62	55.44
2583	2358	Urban	Y	LOW CLASS	7.0	120	8.4	100.8
6000	0	Urban	Υ	MIDDLE CLASS CUSTOMER	5.0	141	7.05	84.6
5417	4196	Urban	Y	MIDDLE CLASS CUSTOMER	5.0	267	13.35	160.2
2333	1516	Urban	Υ	LOW CLASS	7.0	95	6.65	79.8
3036	2504	Semiurban	N	LOW CLASS	7.0	158	11.06	132.72
4006	1526	Urban	Υ	LOW CLASS	7.0	168	11.76	141.12

ANNUAL_INTEREST_AMOUNT	REGION_ID	POSTAL_CODE	SEGMENT	STATE	REGIO
107.52	13.2	90036	Corporate	California	West
55.44	13.2	33311	Consumer	Florida	West
100.8	13.2	90032	Consumer	California	West
34.6	13.2	28027	Consumer	North Carolina	West
160.2	13.2	98103	Consumer	Washington	West
79.8	13.3	76106	Home Office	Texas	North
132.72	13.3	53711	Consumer	Wisconsin	North
141.12	13.2	84084	Consumer	Utah	West

#### 4.3 EXERCISE OUT PUT

#### -- TASK 2 FIND THE MISMATCH DETAIL USING JOINS

### SELECT \* FROM COUNTRY\_STATE A JOIN REGION\_INFO B ON A.REGION\_ID = B.REGION\_ID;

Customer_id	Load_Id	Customer_name	Region_id	Postal_Code	Segment	State	Region	Region_Id
IP43001	LP001002	Claire Gute	13.2	42420	Consumer	Kentucky	West	13.2
IP43002	LP001003	Darrin Van Huff	13.2	90036	Corporate	California	West	13.2
IP43003	LP001005	Sean O'Donnell	13.2	33311	Consumer	Florida	West	13.2
IP43004	LP001006	Brosina Hoffman	13.2	90032	Consumer	California	West	13.2
IP43005	LP001008	Andrew Allen	13.2	28027	Consumer	North Carolina	West	13.2
IP43006	LP001011	Irene Maddox	13.2	98103	Consumer	Washington	West	13.2
IP43007	LP001013	Harold Pawlan	13.3	76106	Home Office	Texas	North	13.3
IP43008	LP001014	Pete Kriz	13.3	53711	Consumer	Wisconsin	North	13.3
IP43009	LP001018	Alejandro Grove	13.2	84084	Consumer	Utah	West	13.2

## -- TASK 3 FILTER HIGH CIBIL SCORE

SELECT LOAN\_AMOUNT\_TERM,B.CIBIL\_SCORE,B.CIBIL\_SCORE\_STATUS,

C.CUSTOMER\_NAME,C.GENDER,C.AGE,C.MARRIED,C.EDUCATION,C.SELF\_EMPLOYED,A.\*,C.R EGION\_ID,

D.POSTAL CODE, D.SEGMENT, D.STATE, E.REGION

FROM customer\_interest\_analysis A

JOIN loan cibil score status B on A.customer id = B.customer id

JOIN cusotomer info C on A.customer id = C.customer id

JOIN country\_state D on A.customer\_id = D.customer\_id

join region\_info E on C.region\_id = E.region\_id

WHERE CIBIL SCORE STATUS ='HIGH CIBIL SCORE';

Г	LOAN_AMOUNT_TERM	CIBIL_SCORE	CIBIL_SCORE_STATUS	CUSTOMER_NAME	GEND
	360	920	HIGH CIBIL SCORE	Darrin Van Huff	Male
	360	928	HIGH CIBIL SCORE	Emily Burns	Male
	360	903	HIGH CIBIL SCORE	Odella Nelson	Male
	360	999	HIGH CIBIL SCORE	Ted Butterfield	Male
	360	972	HIGH CIBIL SCORE	Karen Daniels	Male
	360	949	HIGH CIBIL SCORE	Troy Staehel	Male

#### -- TASK 4 FILTER HOME OFFICE AND CORPORATE

SELECT LOAN\_AMOUNT\_TERM,B.CIBIL\_SCORE,B.CIBIL\_SCORE\_STATUS,

C.CUSTOMER\_NAME,C.GENDER,C.AGE,C.MARRIED,C.EDUCATION,C.SELF\_EMPLOYED,A.\*,C.R EGION ID,

D.POSTAL CODE, D.SEGMENT, D.STATE, E.REGION

FROM customer interest analysis A

JOIN loan\_cibil\_score\_status B on A.customer\_id = B.customer\_id

JOIN cusotomer\_info C on A.customer\_id = C.customer\_id

JOIN country state D on A.customer id = D.customer id

join region info E on C.region id = E.region id

#### WHERE SEGMENT IN ('HOME OFFICE','CORPORATE');

	I	T	T	I	
ANNUAL_INTEREST_AMOUNT	REGION_ID	POSTAL_CODE	SEGMENT	STATE	REGION
.07.52	13.2	90036	Corporate	California	West
9.8	13.3	76106	Home Office	Texas	North
i8.8	13.3	68025	Corporate	Nebraska	North
.05	13.3	77095	Home Office	Texas	North
14	13.3	75080	Corporate	Texas	North
3.84	13.3	77041	Home Office	Texas	North
.11.72	13.3	60540	Corporate	Illinois	North
6.6	13.2	90049	Corporate	California	West