Insurance Database

SQL Final Project by Dipak Hire

1. Description:

Following database schema is designed to function as backend storage database for a web application built to manage insurance Database.
By storing information in a relational database, Course project for Database Management System which is a project that manages insurance database. All the tasks related to store functioning of the insurance can be performed easily and much more efficiently. Some of the benefits of using this system to store data over traditional paper registers are as follows:

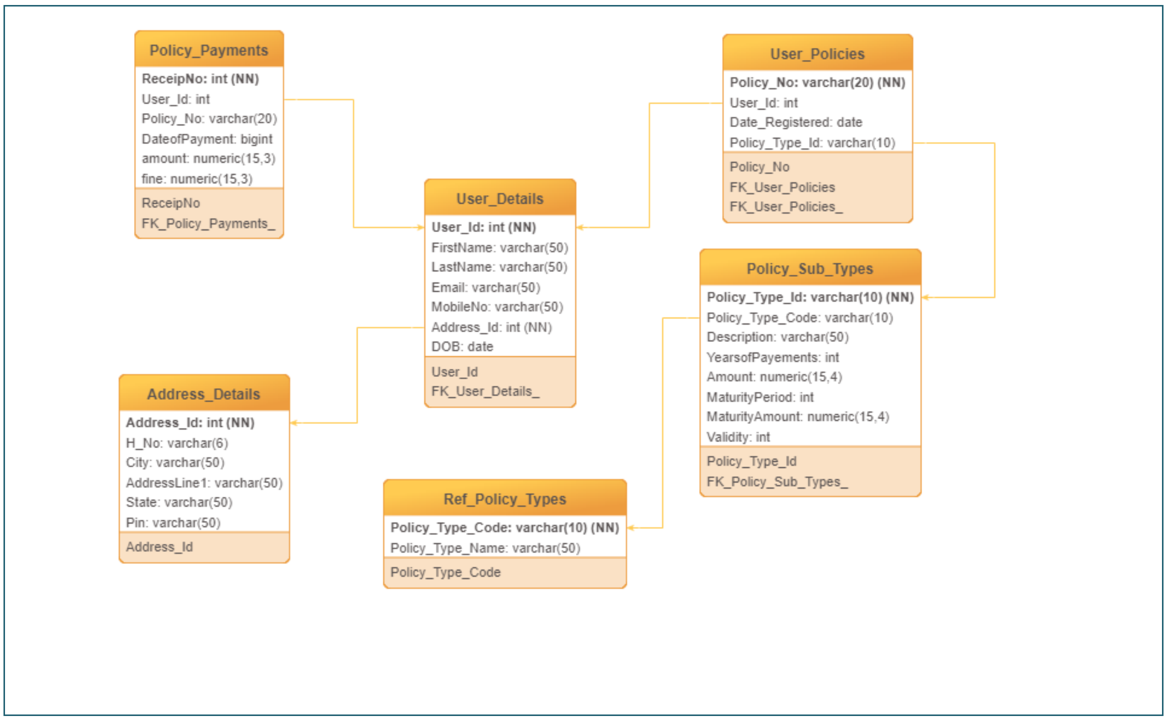
• Updating and modifying insurance details is much easier and efficient.
• Maintaining customer personal details and their account is easy and efficient.
• We manage purchased detail, customer detail info and maturity status can be done automatically by DBMS, thus eliminating human error.
• RDBMS provides many ways to analyse available data, thus helping in making more informed decisions about insurance management.

This database contains Tables:

1. Address_Details.
2. User_Details
3. Ref_Policy_Types
4. Policy_Sub_Types
5. User_Policies
6. Policy_Payments

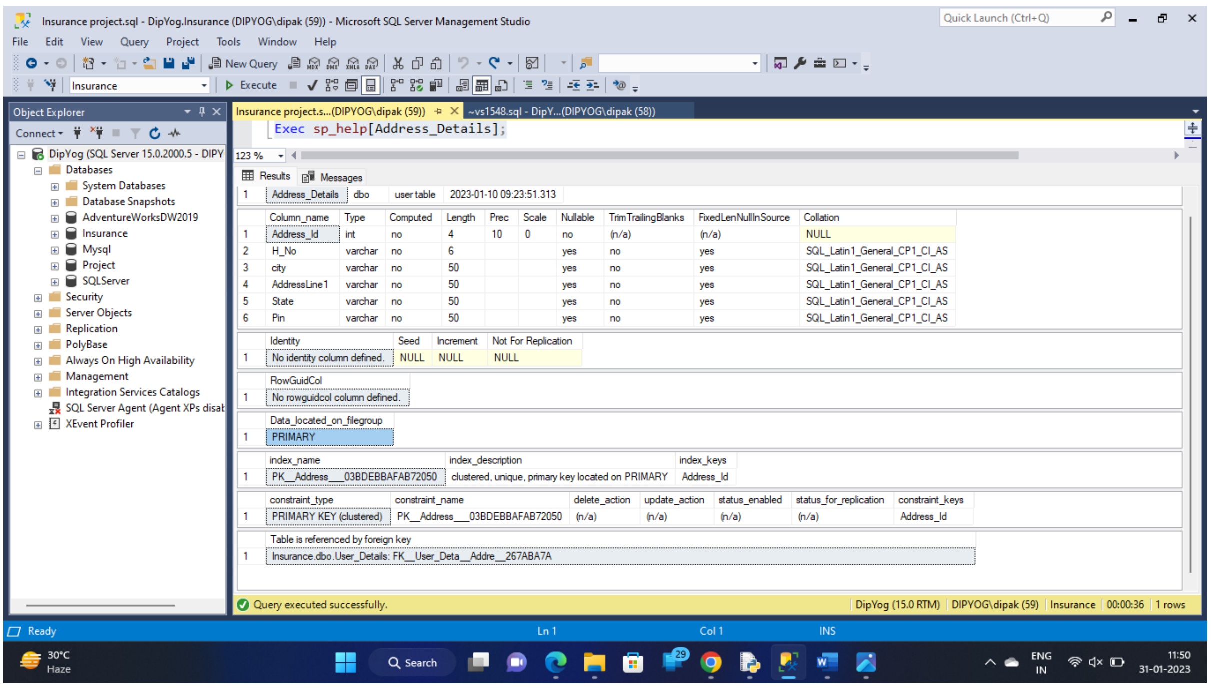
How these tables/entities are related to each other is shown pictorially on next page through ER diagram, i.e., Entity Relationship Diagram.

ER diagram



3.Table Description

1. Address_Details


Insurance project.sql - DipYog.Insurance (DIPYOG\dipak (59)) - Microsoft SQL Server Management Studio

```
Exec sp_help[Address_Details];
```

1	Address_Details	dbo	user table	2023-01-10 09:23:51.313

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	Address_Id	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	H_No	varchar	no	6			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
3	city	varchar	no	50			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
4	AddressLine1	varchar	no	50			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
5	State	varchar	no	50			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
6	Pin	varchar	no	50			yes	no	yes	SQL_Latin1_General_CP1_CI_AS

	Identity	Seed	Increment	Not For Replication
1	No identity column defined.	NULL	NULL	NULL

	RowGuidCol
1	No rowguidcol column defined.

	Data_located_on_filegroup
1	PRIMARY

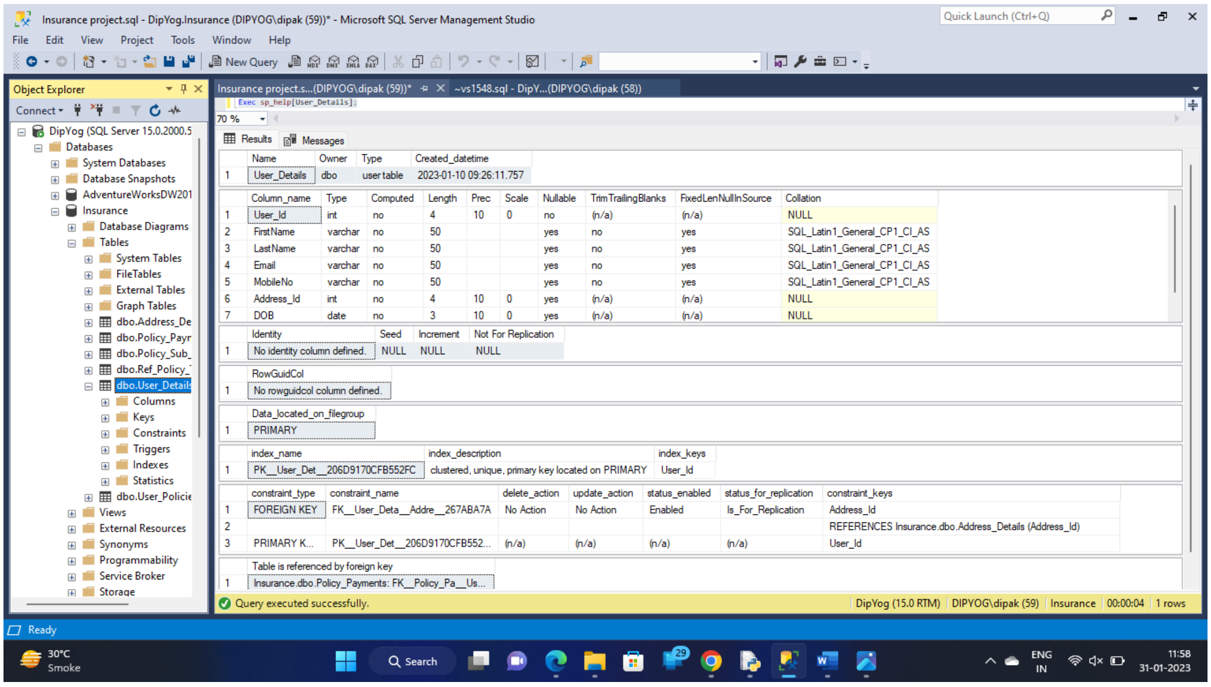
	index_name	index_description	index_keys
1	PK__Address___03BDEBBAFAB72050	clustered, unique, primary key located on PRIMARY	Address_Id

	constraint_type	constraint_name	delete_action	update_action	status_enabled	status_for_replication	constraint_keys
1	PRIMARY KEY (clustered)	PK__Address___03BDEBBAFAB72050	(n/a)	(n/a)	(n/a)	(n/a)	Address_Id

	Table is referenced by foreign key
1	Insurance.dbo.User_Details: FK__User_Deta__Addre__267ABA7A

Query executed successfully. DipYog (15.0 RTM) DIPYOG\dipak (59) Insurance 00:00:36 1 rows

2. User_Details



```sql
Exec sp_help[User_Details];
```

	Name	Owner	Type	Created_datetime
1	User_Details	dbo	user table	2023-01-10 09:26:11.757

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	User_Id	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	FirstName	varchar	no	50			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
3	LastName	varchar	no	50			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
4	Email	varchar	no	50			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
5	MobileNo	varchar	no	50			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
6	Address_Id	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
7	DOB	date	no	3	10	0	yes	(n/a)	(n/a)	NULL

	Identity	Seed	Increment	Not For Replication
1	No identity column defined.	NULL	NULL	NULL

	RowGuidCol
1	No rowguidcol column defined.

	Data_located_on_filegroup
1	PRIMARY

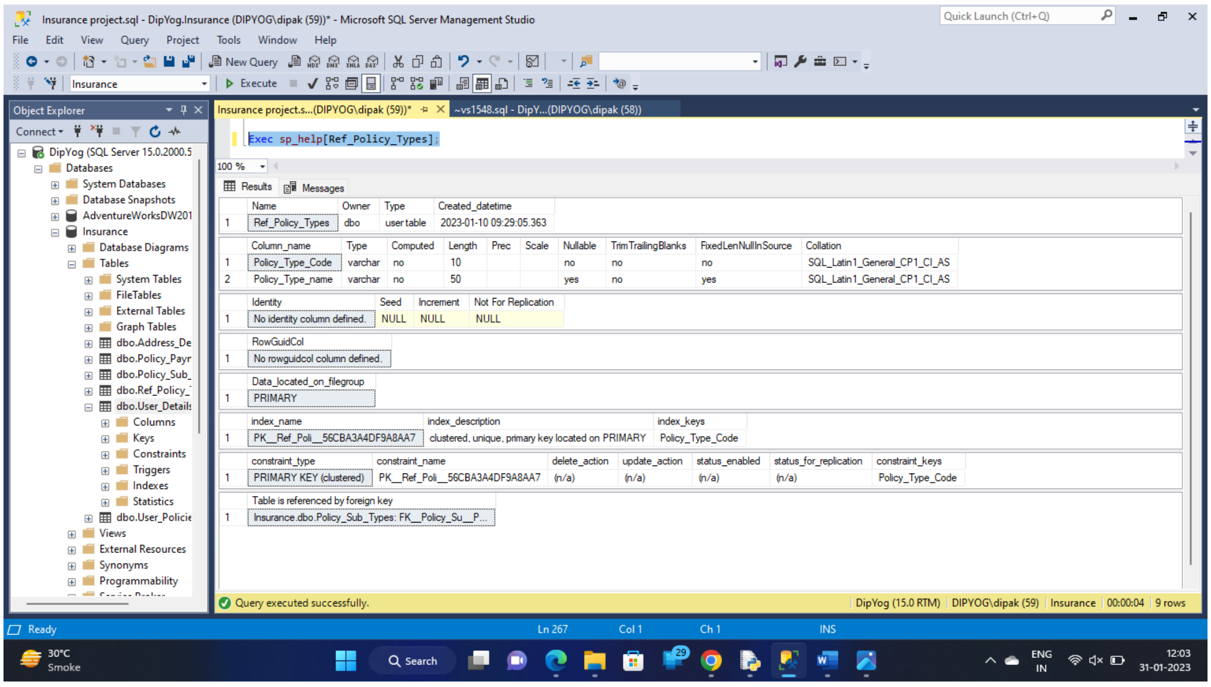
	index_name	index_description	index_keys
1	PK__User_Det__206D9170CFB552FC	clustered, unique, primary key located on PRIMARY	User_Id

	constraint_type	constraint_name	delete_action	update_action	status_enabled	status_for_replication	constraint_keys
1	FOREIGN KEY	FK__User_Deta__Addre__267ABA7A	No Action	No Action	Enabled	Is_For_Replication	Address_Id
2							REFERENCES Insurance.dbo.Address_Details (Address_Id)
3	PRIMARY K...	PK__User_Det__206D9170CFB552...	(n/a)	(n/a)	(n/a)	(n/a)	User_Id

	Table is referenced by foreign key
1	Insurance.dbo.Policy_Payments: FK__Policy_Pa__Us...

Query executed successfully. DipYog (15.0 RTM) | DIPYOG\dipak (59) | Insurance | 00:00:04 | 1 rows

3. Ref_Policy_Types



```sql
Exec sp_help[Ref_Policy_Types];
```

	Name	Owner	Type	Created_datetime
1	Ref_Policy_Types	dbo	user table	2023-01-10 09:29:05.363

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	Policy_Type_Code	varchar	no	10			no	no	no	SQL_Latin1_General_CP1_CI_AS
2	Policy_Type_name	varchar	no	50			yes	no	yes	SQL_Latin1_General_CP1_CI_AS

	Identity	Seed	Increment	Not For Replication
1	No identity column defined.	NULL	NULL	NULL

	RowGuidCol
1	No rowguidcol column defined.

	Data_located_on_filegroup
1	PRIMARY

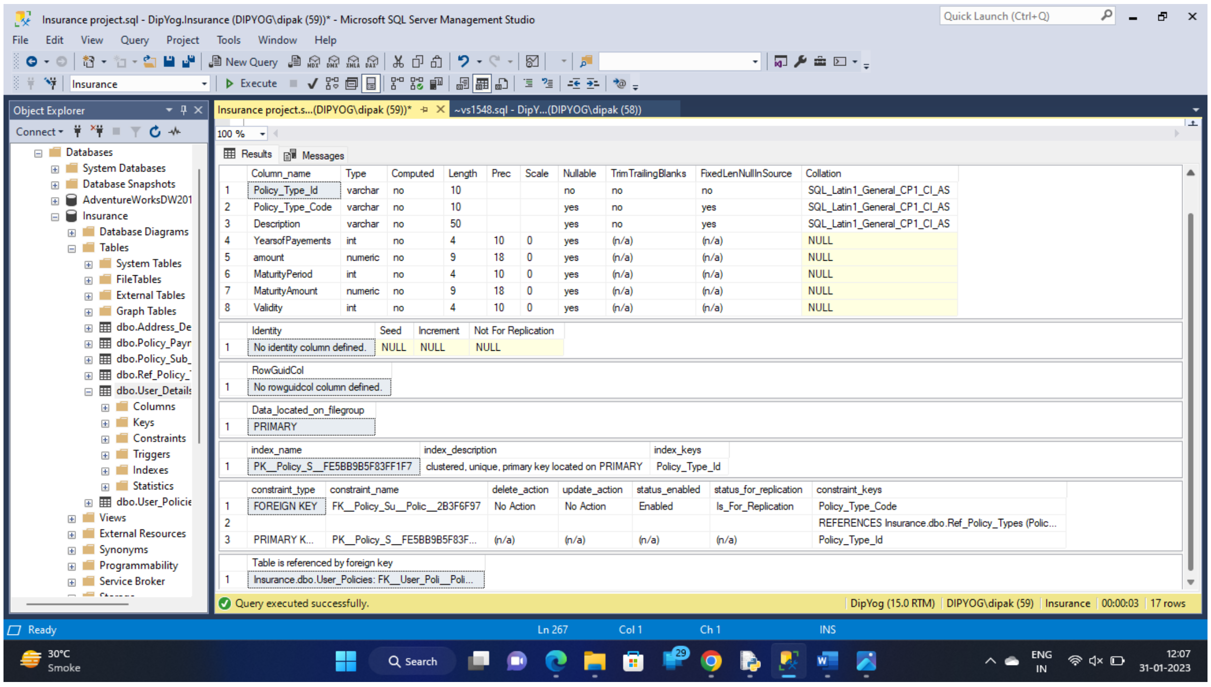
	index_name	index_description	index_keys
1	PK__Ref_Poli__56CBA3A4DF9A8AA7	clustered, unique, primary key located on PRIMARY	Policy_Type_Code

	constraint_type	constraint_name	delete_action	update_action	status_enabled	status_for_replication	constraint_keys
1	PRIMARY KEY (clustered)	PK__Ref_Poli__56CBA3A4DF9A8AA7	(n/a)	(n/a)	(n/a)	(n/a)	Policy_Type_Code

	Table is referenced by foreign key
1	Insurance.dbo.Policy_Sub_Types: FK__Policy_Su__P...

Query executed successfully. DipYog (15.0 RTM) | DIPYOG\dipak (59) | Insurance | 00:00:04 | 9 rows

4. Policy_Sub_Types



	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	Policy_Type_Id	varchar	no	10			no	no	no	SQL_Latin1_General_CP1_CI_AS
2	Policy_Type_Code	varchar	no	10			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
3	Description	varchar	no	50			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
4	YearsofPayements	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
5	amount	numeric	no	9	18	0	yes	(n/a)	(n/a)	NULL
6	MaturityPeriod	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
7	MaturityAmount	numeric	no	9	18	0	yes	(n/a)	(n/a)	NULL
8	Validity	int	no	4	10	0	yes	(n/a)	(n/a)	NULL

	Identity	Seed	Increment	Not For Replication
1	No identity column defined.	NULL	NULL	NULL

	RowGuidCol
1	No rowguidcol column defined.

	Data_located_on_filegroup
1	PRIMARY

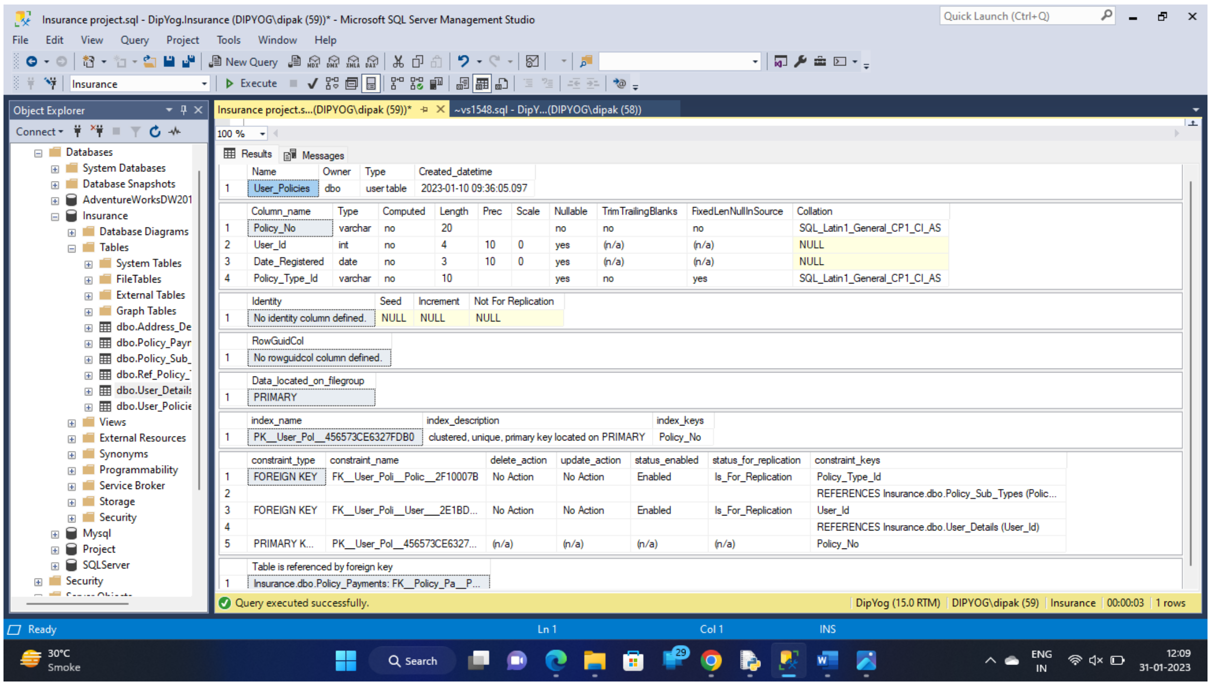
	index_name	index_description	index_keys
1	PK__Policy_S__FE5BB9B5F83FF1F7	clustered, unique, primary key located on PRIMARY	Policy_Type_Id

	constraint_type	constraint_name	delete_action	update_action	status_enabled	status_for_replication	constraint_keys
1	FOREIGN KEY	FK__Policy_Su__Polic__2B3F6F97	No Action	No Action	Enabled	Is_For_Replication	Policy_Type_Code
2							REFERENCES Insurance.dbo.Ref_Policy_Types (Polic...
3	PRIMARY K...	PK__Policy_S__FE5BB9B5F83F...	(n/a)	(n/a)	(n/a)	(n/a)	Policy_Type_Id

	Table is referenced by foreign key
1	Insurance.dbo.User_Policies: FK__User_Poli__Poli...

Query executed successfully. DipYog (15.0 RTM) DIPYOG\dipak (59) Insurance 00:00:03 17 rows

5. **User_Policies**



	Name	Owner	Type	Created_datetime
1	User_Policies	dbo	user table	2023-01-10 09:36:05.097

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	Policy_No	varchar	no	20			no	no	no	SQL_Latin1_General_CP1_CI_AS
2	User_Id	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
3	Date_Registered	date	no	3	10	0	yes	(n/a)	(n/a)	NULL
4	Policy_Type_Id	varchar	no	10			yes	no	yes	SQL_Latin1_General_CP1_CI_AS

	Identity	Seed	Increment	Not For Replication
1	No identity column defined.	NULL	NULL	NULL

	RowGuidCol
1	No rowguidcol column defined.

	Data_located_on_filegroup
1	PRIMARY

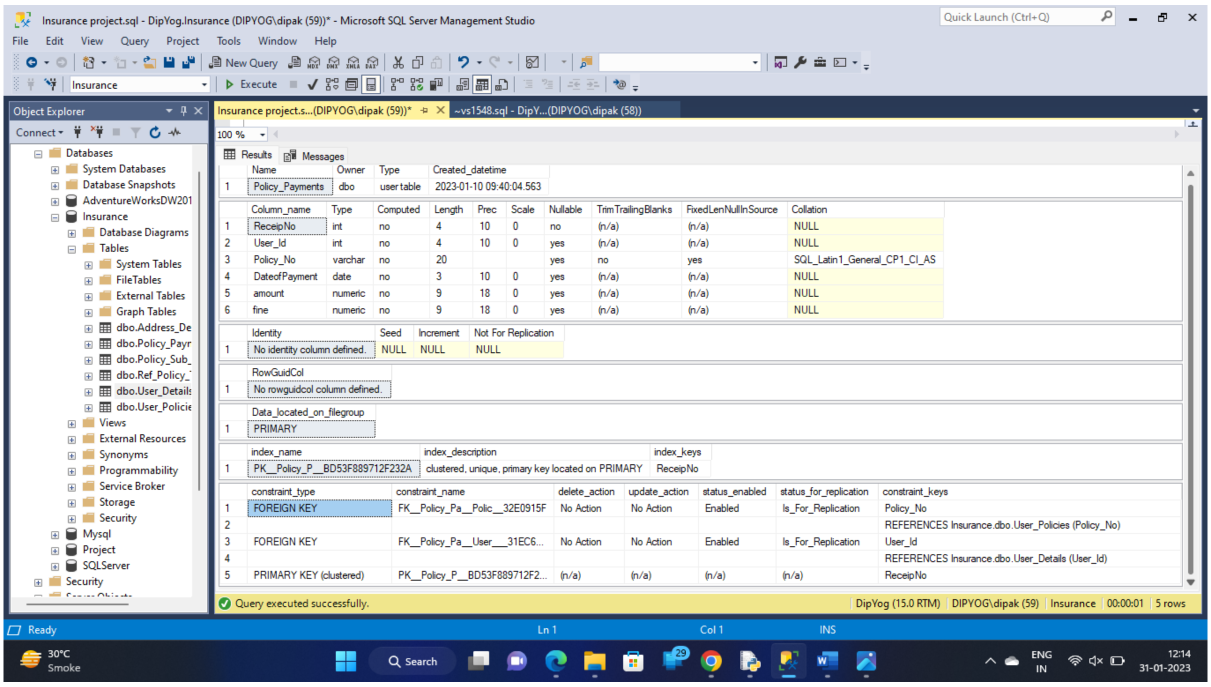
	index_name	index_description	index_keys
1	PK__User_Pol__456573CE6327FDB0	clustered, unique, primary key located on PRIMARY	Policy_No

	constraint_type	constraint_name	delete_action	update_action	status_enabled	status_for_replication	constraint_keys
1	FOREIGN KEY	FK__User_Poli__Polic__2F10007B	No Action	No Action	Enabled	Is_For_Replication	Policy_Type_Id
2							REFERENCES Insurance.dbo.Policy_Sub_Types (Polic...
3	FOREIGN KEY	FK__User_Poli__User___2E1BD...	No Action	No Action	Enabled	Is_For_Replication	User_Id
4							REFERENCES Insurance.dbo.User_Details (User_Id)
5	PRIMARY K...	PK__User_Pol__456573CE6327...	(n/a)	(n/a)	(n/a)	(n/a)	Policy_No

	Table is referenced by foreign key
1	Insurance.dbo.Policy_Payments: FK__Policy_Pa__P...

Query executed successfully. DipYog (15.0 RTM) DIPYOG\dipak (59) Insurance 00:00:03 1 rows

6. Policy_Payments



Insurance project.sql - DipYog.Insurance (DIPYOG\dipak (59))* - Microsoft SQL Server Management Studio

	Name	Owner	Type	Created_datetime
1	Policy_Payments	dbo	user table	2023-01-10 09:40:04.563

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	ReceipNo	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	User_Id	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
3	Policy_No	varchar	no	20			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
4	DateofPayment	date	no	3	10	0	yes	(n/a)	(n/a)	NULL
5	amount	numeric	no	9	18	0	yes	(n/a)	(n/a)	NULL
6	fine	numeric	no	9	18	0	yes	(n/a)	(n/a)	NULL

	Identity	Seed	Increment	Not For Replication
1	No identity column defined.	NULL	NULL	NULL

	RowGuidCol
1	No rowguidcol column defined.

	Data_located_on_filegroup
1	PRIMARY

	index_name	index_description	index_keys
1	PK__Policy_P__BD53F889712F232A	clustered, unique, primary key located on PRIMARY	ReceipNo

	constraint_type	constraint_name	delete_action	update_action	status_enabled	status_for_replication	constraint_keys
1	FOREIGN KEY	FK__Policy_Pa__Polic__32E0915F	No Action	No Action	Enabled	Is_For_Replication	Policy_No
2							REFERENCES Insurance.dbo.User_Policies (Policy_No)
3	FOREIGN KEY	FK__Policy_Pa__User___31EC6...	No Action	No Action	Enabled	Is_For_Replication	User_Id
4							REFERENCES Insurance.dbo.User_Details (User_Id)
5	PRIMARY KEY (clustered)	PK__Policy_P__BD53F889712F2...	(n/a)	(n/a)	(n/a)	(n/a)	ReceipNo

Query executed successfully. DipYog (15.0 RTM) DIPYOG\dipak (59) Insurance 00:00:01 5 rows

4. Commands

```
--First, we have to create the database "insurance":
 CREATE DATABASE Insurance;

--After creating the database, then we have to use that database.:

USE Insurance;

--Creating table Address_Details

CREATE TABLE Address_Details
   ( Address_Id int primary key,
      H_No varchar(6),
      city varchar(50),
      AddressLine1 varchar(50),
      State varchar(50),
      Pin varchar(50));

--Creating table User_Details
CREATE TABLE User_Details
   (   User_Id int primary key,
      FirstName varchar(50),
      LastName varchar(50),
      Email varchar(50),
      MobileNo varchar(50),
      Address_Id int references Address_Details(Address_Id),
      DOB date);
```

```
--Creating table Ref_Policy_Types

CREATE TABLE Ref_Policy_Types
   (
      Policy_Type_Code varchar(10) primary key,
      Policy_Type_name varchar(50)
   );

--Creating table Policy_Sub_Types

CREATE TABLE Policy_Sub_Types
   (
      Policy_Type_Id varchar(10) primary key,
      Policy_Type_Code varchar(10) references
      Ref_policy_Types(Policy_Type_Code),
      Description varchar(50),
      YearsofPayements int,
      amount numeric,
      MaturityPeriod int,
      MaturityAmount numeric,
      Validity int
    );

--Creating table User_Policies

CREATE TABLE User_Policies
   (
      Policy_No varchar(20) primary key,
      User_Id int references User_Details(User_Id),
      Date_Registered date,
      Policy_Type_Id varchar(10) references
      Policy_Sub_Types(policy_Type_Id)
   );

--Creating table Policy_Payments

CREATE TABLE Policy_Payments
   (
      ReceipNo int primary key,
      User_Id int references User_Details(User_Id),
      Policy_No varchar(20) references User_Policies(Policy_No),
      DateofPayment date,
      amount Numeric,
      fine numeric
   );
```

--Insert records into the Address_Details table:

```
INSERT INTO Address_Details values
(1, '6-21', 'Hyderabad', 'Salim ki gali', 'Andhra Pradesh',500003),
(2, '7-81', 'Chennai', 'Serusari', 'Tamilnadu', 600001),
(3, '3-71', 'Lucknow', 'Wajid bhai Road', 'Uttarpradesh', 226001),
(4, '4-81', 'NaviMumbai', 'Airoli', 'Maharashtra', 400708),
(5, '5-81', 'Bangalore', 'MG Road', 'Karnataka', 530068),
(6, '6-81', 'Ahamadabad', 'Street2', 'Gujarat', 320008),
(7, '9-21', 'Nashik', 'Trimurti Chowk', 'Maharashtra',422009);
```

--Insert records into the User_Details table:

```
INSERT INTO User_Details values
(1111,'Raju','Reddy','raju@gmail.com','9854261456',5,'1986-04-11'),
(2222,'Javed','Khan','javedk@gmail.com','9854261463',1,'1990-04-11'),
(3333,'Naveen','Reddy','naveen@gmail.com','9854261496',2,'1985-03-14'),
(4444,'Raghav','Patil','raghavp@gmail.com','9854261412',4,'1985-09-21'),
(5555,'Harsha','Pandey','harsha@gmail.com','9854261445',3,'1992-10-11'),
(6666,'Amit','Shah','amits@ymail.com','9896954523',6,'1994-12-04');
```

--Insert records into the Ref_Policy_Types table:

```
INSERT INTO Ref_Policy_Types values
('58934', 'Car'),
('58936', 'Bike'),
('58539', 'Home'),
('58969', 'Term'),
('58979', 'Health'),
('58683', 'Life');
```

--Insert records into the Policy_Sub_Types table:

```
INSERT INTO Policy_Sub_Types values
('6893','58934','Theft',1,10000,null,200000,1),
('6894','58934','Accident',1,50000,null,500000,3),
('6895','58539','Fire',1,50000,null,500000,3),
('6896','58683','Anand Life',7,50000,15,1500000,null),
('6897','58683','Sukh Life',10,5000,13,300000,null),
('6899','58936','Theft',1,5000,null,50000,1),
('6898','58936','Accident',1,2000,null,30000,3),
('6891','58979','Group Health',1,50000,null,2000000,1),
('6889','58979','Single Health',1,11000,null,500000,1);

delete from Policy_Sub_Types where Policy_Type_Id='6889'

insert into Policy_Sub_Types values('6889','58979','Single Health',1,11000,null,500000,1);
```

--Insert Records into the User_Policies table:

```
INSERT INTO User_Policies values
('689314',1111,'1994-04-18','6896'),
('689316',1111,'2012-05-18','6895'),
('689317',1111,'2012-06-20','6894'),
('689318',2222,'2012-06-21','6894'),
('689320',3333,'2012-06-18','6894'),
('689420',4444,'2012-04-09','6896'),
('689970',5555,'2018-12-19','6891'),
('689610',5555,'2022-09-27','6898'),
('689240',6666,'2020-04-09','6897'),
('689524',6666,'2021-07-15','6898'),
('689758',6666,'2021-07-09','6896'),
('689759',1111,'2021-09-09','6889'),
('689777',2222,'2022-01-09','6889');
```

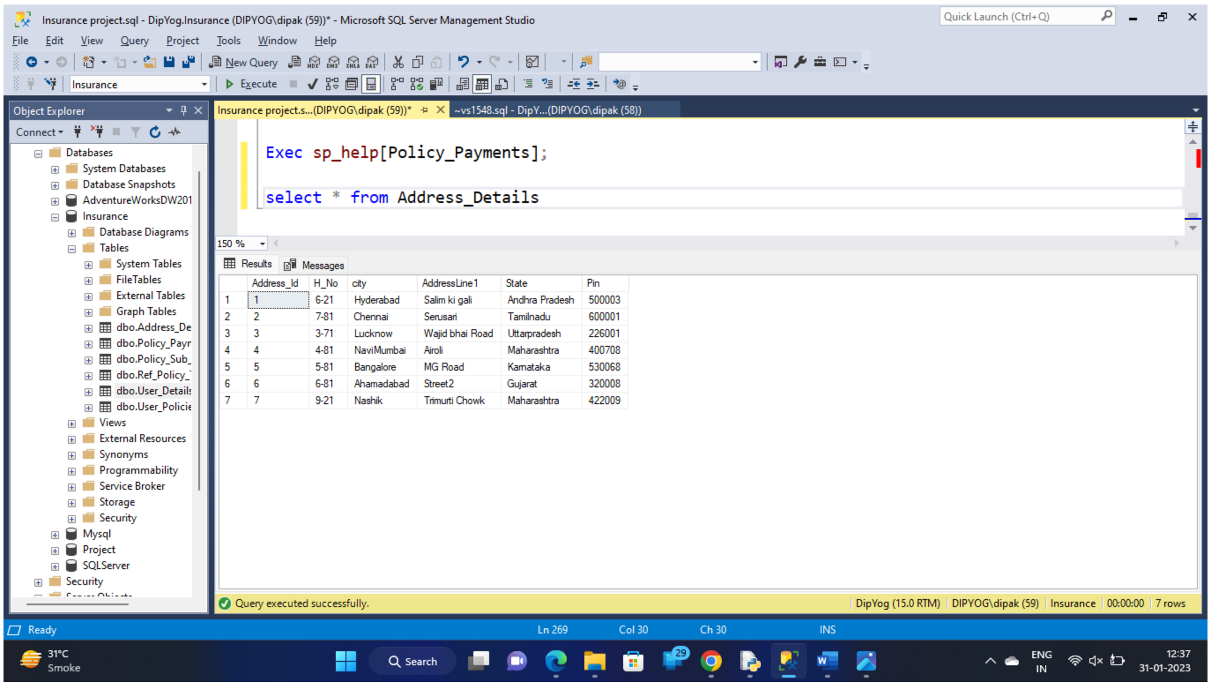
--Insert records into the policy_payments table:

```
INSERT INTO Policy_Payments values
(121,4444,'689420','2012-04-09',50000,null),
(345,4444,'689420','2013-04-09',50000,null),
(300,1111,'689317','2012-06-20',20000,null),
(225,1111,'689316','2012-05-18',20000,null),
(227,1111,'689314','1994-04-18',50000,null),
(100,1111,'689314','1995-04-10',50000,null),
(128,1111,'689314','1996-04-11',50000,null),
(096,1111,'689314','1997-04-18',50000,200),
(101,1111,'689314','1998-04-09',50000,null),
(105,1111,'689314','1999-04-08',50000,null),
(120,1111,'689314','2000-04-05',50000,null),
(367,2222,'689318','2012-06-21',20000,null),
(298,3333,'689320','2012-06-18',20000,null),
(420,5555,'689970','2018-12-19',50000,500),
(451,5555,'689610','2022-09-27',2000,null),
(479,6666,'689240','2020-04-09',5000,null),
(099,6666,'689524','2021-07-15',2000,100),
(501,6666,'689758','2021-07-09',50000,null),
(125,1111,'689759','2021-09-09',11000,null),
(721,2222,'689318','2022-01-09',11000,null)
```

5. Tables

1. Address_Details.

```
select * from Address_Details
```



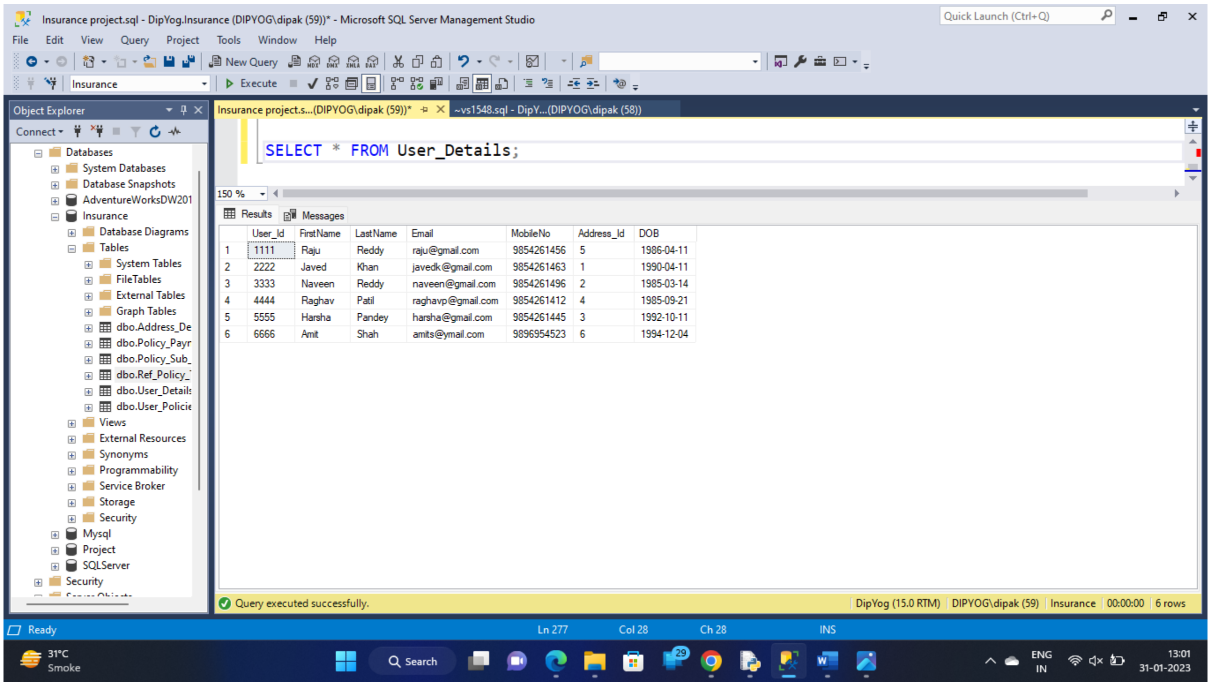
```
Exec sp_help[Policy_Payments];

select * from Address_Details
```

	Address_Id	H_No	city	AddressLine1	State	Pin
1	1	6-21	Hyderabad	Salim ki gali	Andhra Pradesh	500003
2	2	7-81	Chennai	Serusari	Tamilnadu	600001
3	3	3-71	Lucknow	Wajid bhai Road	Uttarpradesh	226001
4	4	4-81	NaviMumbai	Airoli	Maharashtra	400708
5	5	5-81	Bangalore	MG Road	Karnataka	530068
6	6	6-81	Ahamadabad	Street2	Gujarat	320008
7	7	9-21	Nashik	Trimurti Chowk	Maharashtra	422009

Query executed successfully. DipYog (15.0 RTM) DIPYOG\dipak (59) Insurance 00:00:00 7 rows

2. User_Details

```
SELECT * FROM User_Details;
```



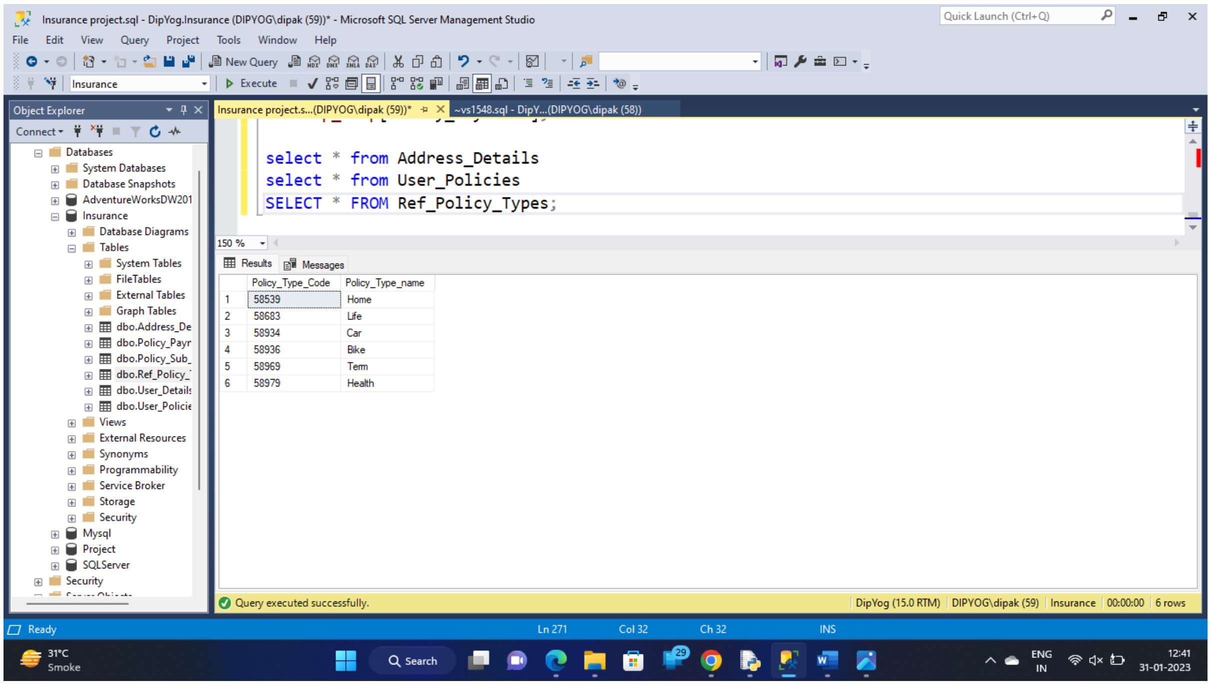
```
SELECT * FROM User_Details;
```

	User_Id	FirstName	LastName	Email	MobileNo	Address_Id	DOB
1	1111	Raju	Reddy	raju@gmail.com	9854261456	5	1986-04-11
2	2222	Javed	Khan	javedk@gmail.com	9854261463	1	1990-04-11
3	3333	Naveen	Reddy	naveen@gmail.com	9854261496	2	1985-03-14
4	4444	Raghav	Patil	raghavp@gmail.com	9854261412	4	1985-09-21
5	5555	Harsha	Pandey	harsha@gmail.com	9854261445	3	1992-10-11
6	6666	Amit	Shah	amits@ymail.com	9896954523	6	1994-12-04

Query executed successfully. DipYog (15.0 RTM) DIPYOG\dipak (59) Insurance 00:00:00 6 rows

3. Ref_Policy_Types

   SELECT * FROM Ref_Policy_Types;



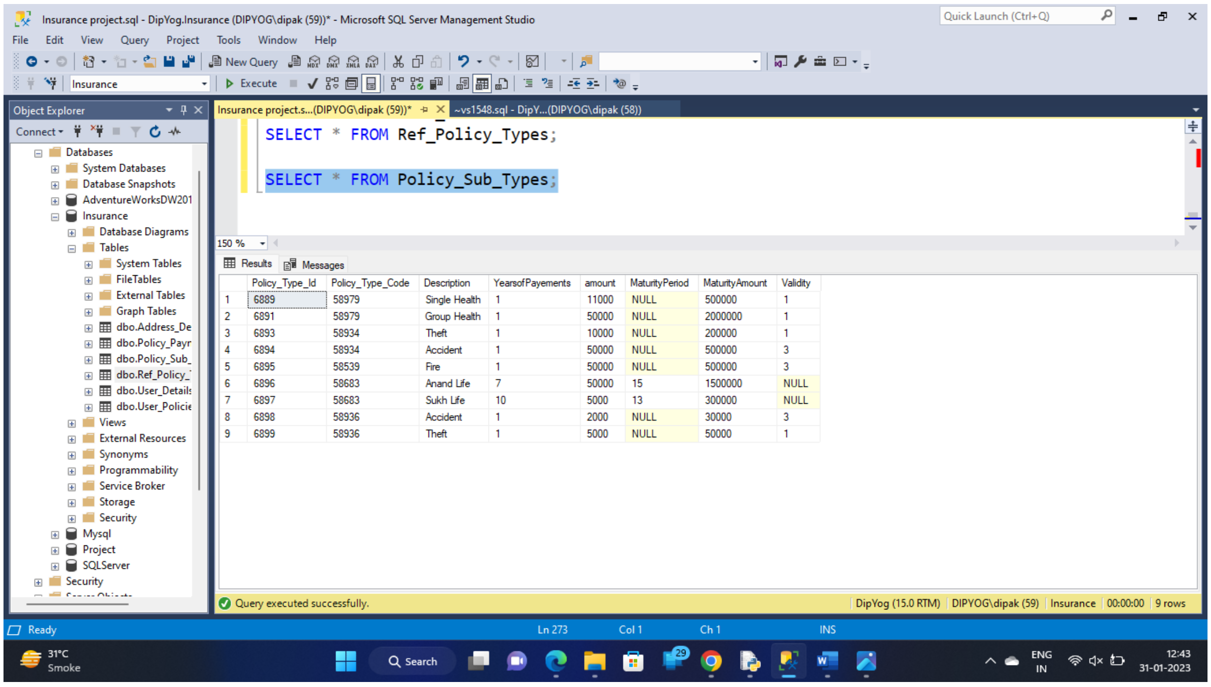
```
select * from Address_Details
select * from User_Policies
SELECT * FROM Ref_Policy_Types;
```

	Policy_Type_Code	Policy_Type_name
1	58539	Home
2	58683	Life
3	58934	Car
4	58936	Bike
5	58969	Term
6	58979	Health

Query executed successfully. DipYog (15.0 RTM) DIPYOG\dipak (59) Insurance 00:00:00 6 rows

4. Policy_Sub_Types

   SELECT * FROM Policy_Sub_Types;



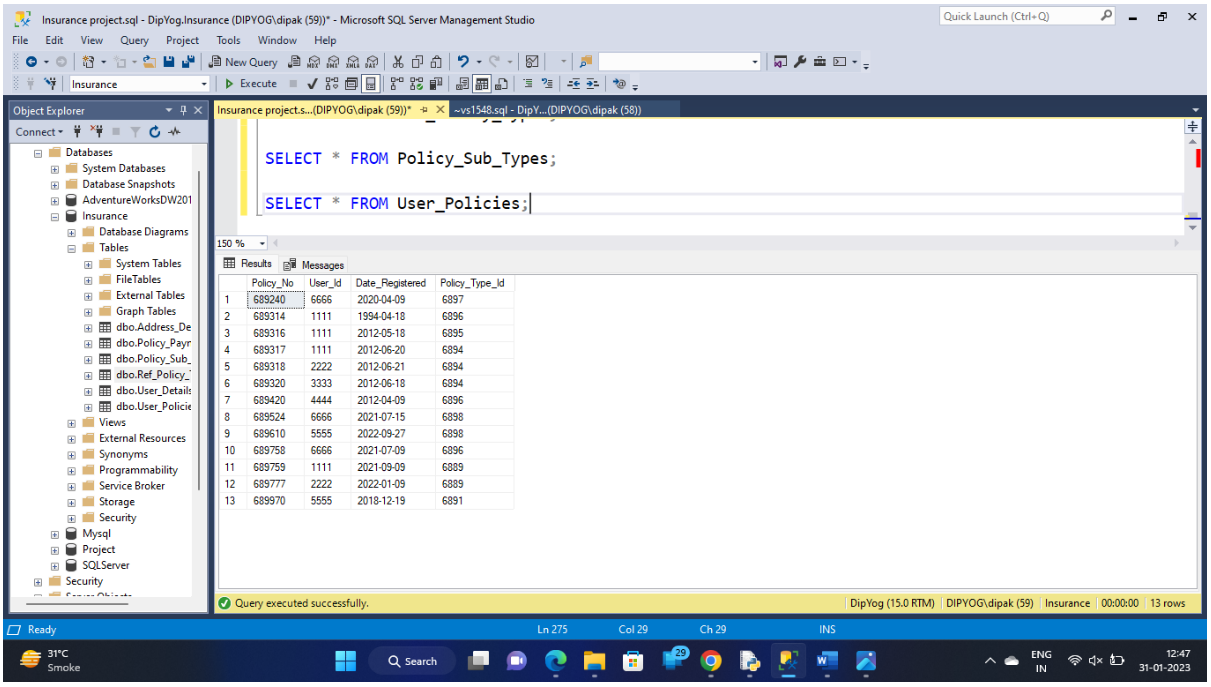
```
SELECT * FROM Ref_Policy_Types;

SELECT * FROM Policy_Sub_Types;
```

	Policy_Type_Id	Policy_Type_Code	Description	YearsofPayements	amount	MaturityPeriod	MaturityAmount	Validity
1	6889	58979	Single Health	1	11000	NULL	500000	1
2	6891	58979	Group Health	1	50000	NULL	2000000	1
3	6893	58934	Theft	1	10000	NULL	200000	1
4	6894	58934	Accident	1	50000	NULL	500000	3
5	6895	58539	Fire	1	50000	NULL	500000	3
6	6896	58683	Anand Life	7	50000	15	1500000	NULL
7	6897	58683	Sukh Life	10	5000	13	300000	NULL
8	6898	58936	Accident	1	2000	NULL	30000	3
9	6899	58936	Theft	1	5000	NULL	50000	1

Query executed successfully. DipYog (15.0 RTM) DIPYOG\dipak (59) Insurance 00:00:00 9 rows

5. User_Policies

SELECT * FROM User_Policies;



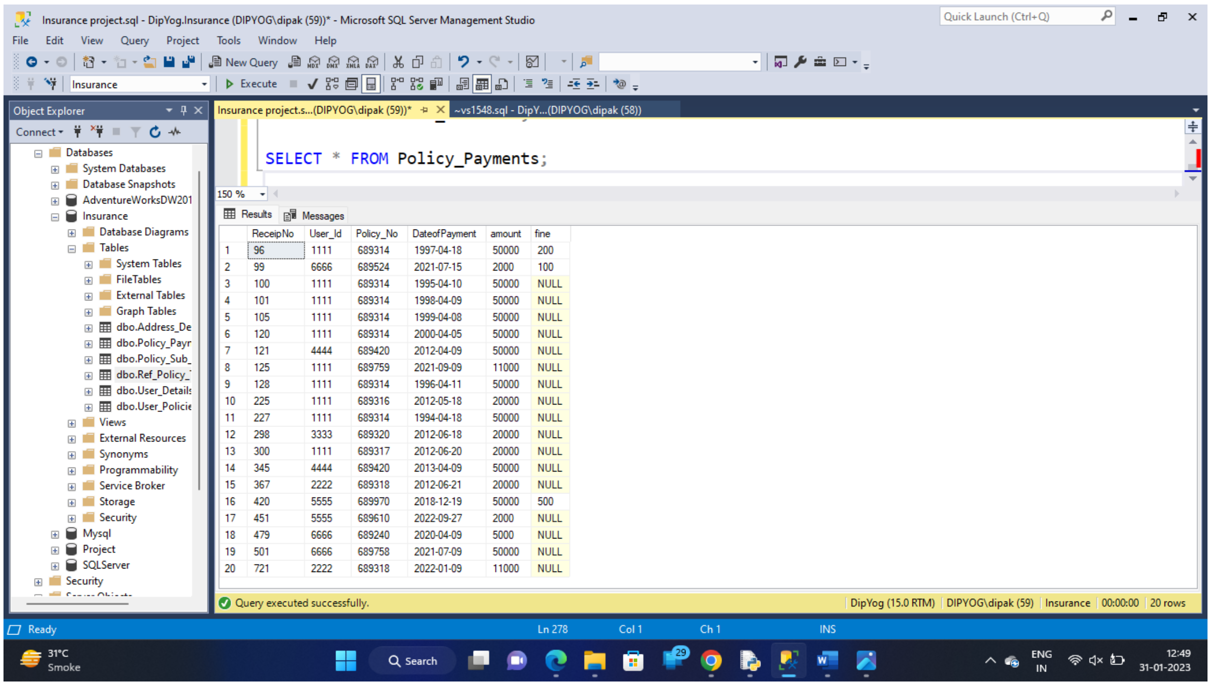
```
SELECT * FROM Policy_Sub_Types;

SELECT * FROM User_Policies;
```

	Policy_No	User_Id	Date_Registered	Policy_Type_Id
1	689240	6666	2020-04-09	6897
2	689314	1111	1994-04-18	6896
3	689316	1111	2012-05-18	6895
4	689317	1111	2012-06-20	6894
5	689318	2222	2012-06-21	6894
6	689320	3333	2012-06-18	6894
7	689420	4444	2012-04-09	6896
8	689524	6666	2021-07-15	6898
9	689610	5555	2022-09-27	6898
10	689758	6666	2021-07-09	6896
11	689759	1111	2021-09-09	6889
12	689777	2222	2022-01-09	6889
13	689970	5555	2018-12-19	6891

Query executed successfully.

6. Policy_Payments

SELECT * FROM Policy_Payments;



```
SELECT * FROM Policy_Payments;
```

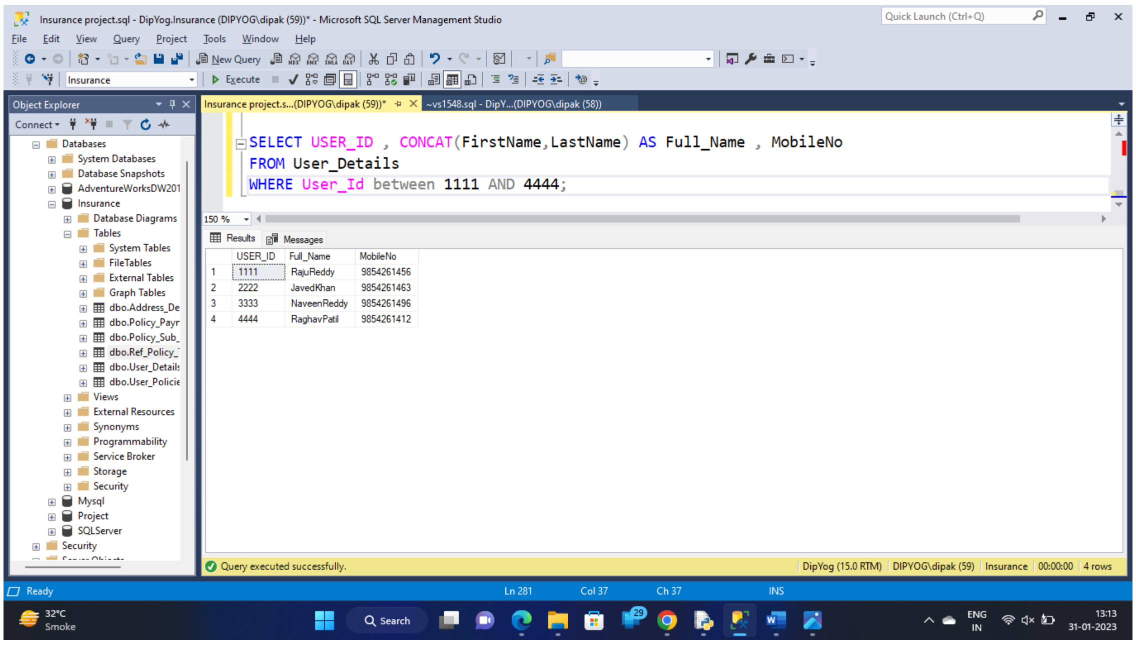
	ReceipNo	User_Id	Policy_No	DateofPayment	amount	fine
1	96	1111	689314	1997-04-18	50000	200
2	99	6666	689524	2021-07-15	2000	100
3	100	1111	689314	1995-04-10	50000	NULL
4	101	1111	689314	1998-04-09	50000	NULL
5	105	1111	689314	1999-04-08	50000	NULL
6	120	1111	689314	2000-04-05	50000	NULL
7	121	4444	689420	2012-04-09	50000	NULL
8	125	1111	689759	2021-09-09	11000	NULL
9	128	1111	689314	1996-04-11	50000	NULL
10	225	1111	689316	2012-05-18	20000	NULL
11	227	1111	689314	1994-04-18	50000	NULL
12	298	3333	689320	2012-06-18	20000	NULL
13	300	1111	689317	2012-06-20	20000	NULL
14	345	4444	689420	2013-04-09	50000	NULL
15	367	2222	689318	2012-06-21	20000	NULL
16	420	5555	689970	2018-12-19	50000	500
17	451	5555	689610	2022-09-27	2000	NULL
18	479	6666	689240	2020-04-09	5000	NULL
19	501	6666	689758	2021-07-09	50000	NULL
20	721	2222	689318	2022-01-09	11000	NULL

Query executed successfully.

6 BASIC QUERYS

1. Select USER_ID , Full_Name , MobileNo, between 1111 to 4444 from User_Details;

```
SELECT USER_ID , CONCAT(FirstName,LastName) AS Full_Name , MobileNo
FROM User_Details
WHERE User_Id between 1111 AND 4444;
```



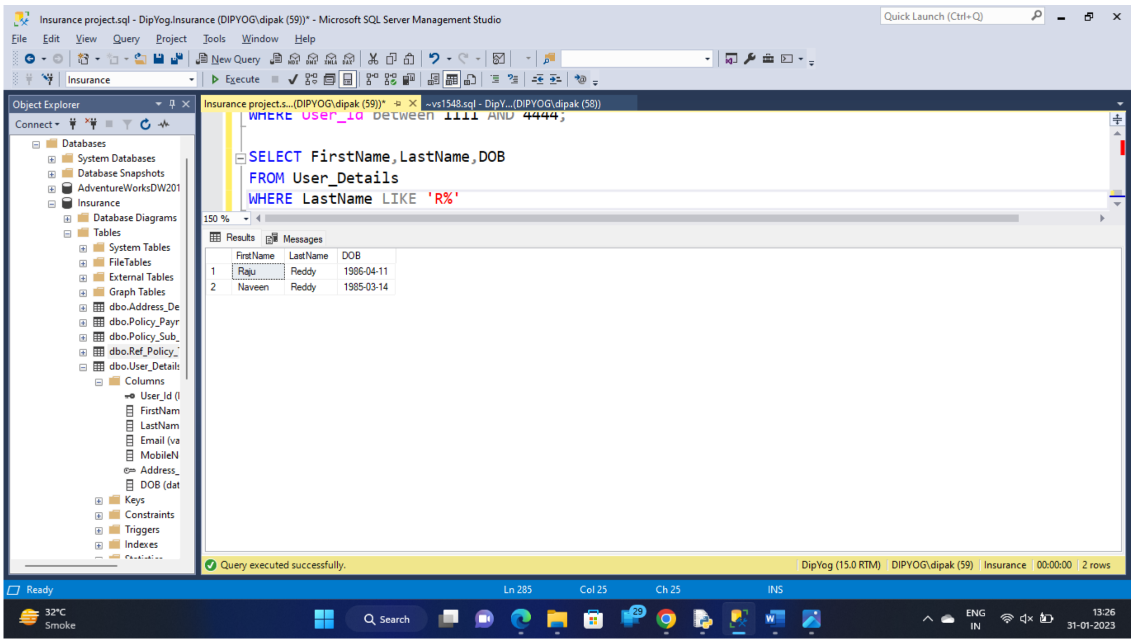
```
SELECT USER_ID , CONCAT(FirstName,LastName) AS Full_Name , MobileNo
FROM User_Details
WHERE User_Id between 1111 AND 4444;
```

	USER_ID	Full_Name	MobileNo
1	1111	RajuReddy	9854261456
2	2222	JavedKhan	9854261463
3	3333	NaveenReddy	9854261496
4	4444	RaghavPatil	9854261412

Query executed successfully. DipYog (15.0 RTM) DIPYOG\dipak (59) Insurance 00:00:00 4 rows

2. Select FirstName, LastName, DOB Start With ‘R’ From User_Details

```
SELECT FirstName, LastName, DOB
FROM User_Details
WHERE LastName LIKE 'R%'
```



```
SELECT FirstName,LastName,DOB
FROM User_Details
WHERE LastName LIKE 'R%'
```

	FirstName	LastName	DOB
1	Raju	Reddy	1986-04-11
2	Naveen	Reddy	1985-03-14

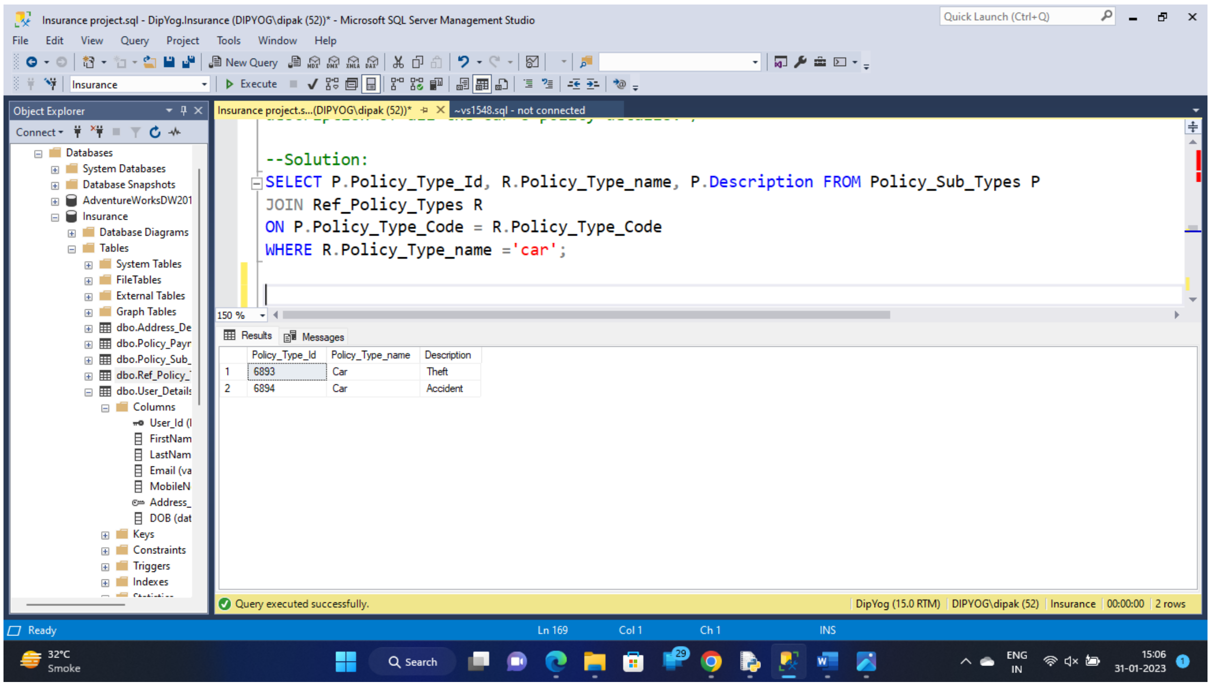
Query executed successfully. DipYog (15.0 RTM) DIPYOG\dipak (59) Insurance 00:00:00 2 rows

COMMPLEX QUERYS

Problem 1:

Write a query to display the PolicyTypeId, PolicyTypeName, description of all the car's policy details.

```
--Solution:
SELECT P.Policy_Type_Id, R.Policy_Type_name, P.Description
FROM Policy_Sub_Types P
JOIN Ref_Policy_Types R
ON P.Policy_Type_Code = R.Policy_Type_Code
WHERE R.Policy_Type_name ='car';
```



Insurance project.sql - DipYog.Insurance (DIPYOG\dipak (52))* - Microsoft SQL Server Management Studio

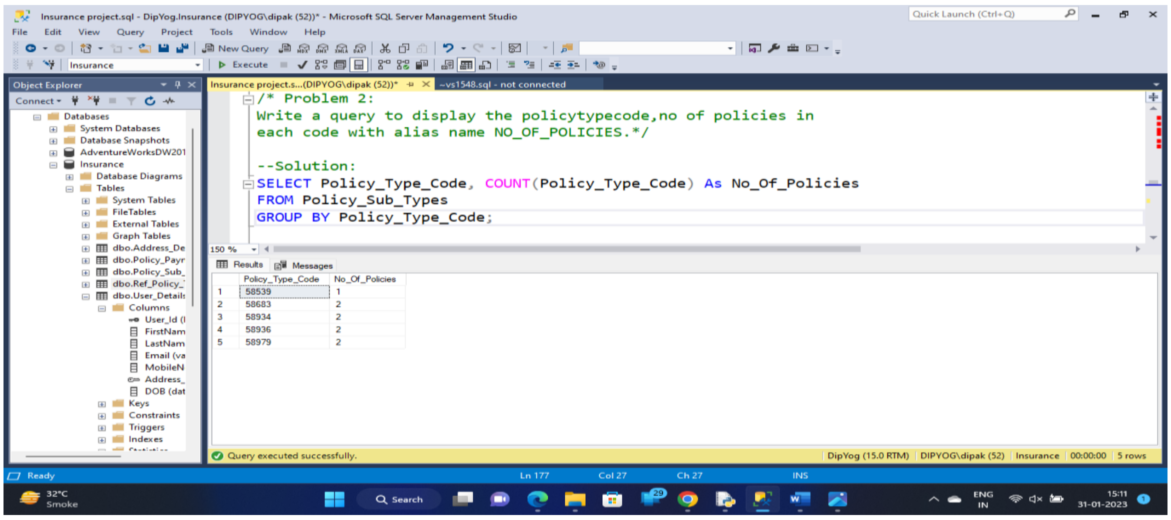
```
--Solution:
SELECT P.Policy_Type_Id, R.Policy_Type_name, P.Description FROM Policy_Sub_Types P
JOIN Ref_Policy_Types R
ON P.Policy_Type_Code = R.Policy_Type_Code
WHERE R.Policy_Type_name ='car';
```

	Policy_Type_Id	Policy_Type_name	Description
1	6893	Car	Theft
2	6894	Car	Accident

Query executed successfully. DipYog (15.0 RTM) | DIPYOG\dipak (52) | Insurance | 00:00:00 | 2 rows

Problem 2:Write a query to display the policytypecode, no of policies in each code with alias name NO_OF_POLICIES.

```
--Solution:
SELECT Policy_Type_Code, COUNT(Policy_Type_Code) As No_Of_Policies
FROM Policy_Sub_Types
GROUP BY Policy_Type_Code;
```



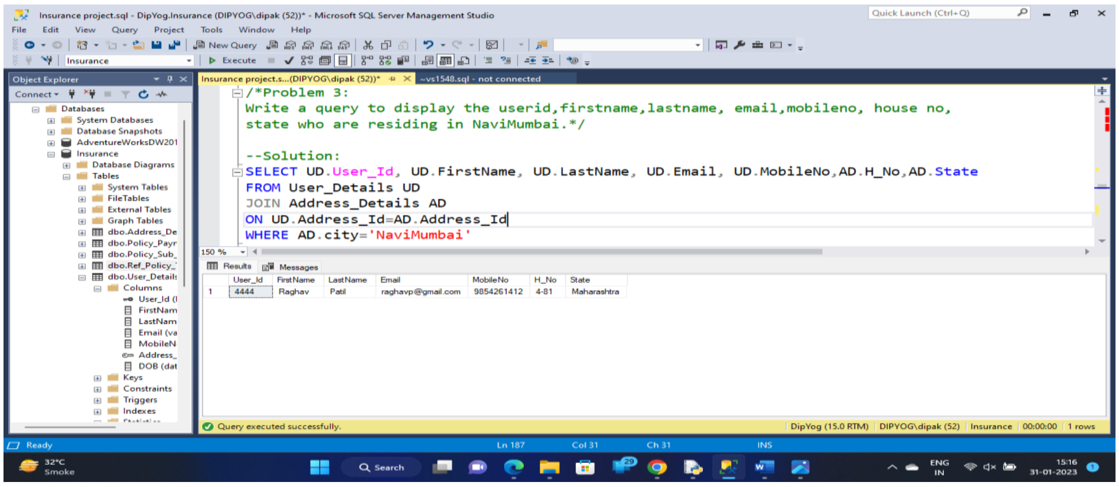
```
/* Problem 2:
Write a query to display the policytypecode,no of policies in
each code with alias name NO_OF_POLICIES.*/

--Solution:
SELECT Policy_Type_Code, COUNT(Policy_Type_Code) As No_Of_Policies
FROM Policy_Sub_Types
GROUP BY Policy_Type_Code;
```

	Policy_Type_Code	No_Of_Policies
1	58539	1
2	58683	2
3	58934	2
4	58936	2
5	58979	2

Query executed successfully.

Problem 3:
Write a query to display the userid, firstname, lastname, email, mobileno, house no, state who are residing in NaviMumbai.
--Solution:

```
SELECT UD.User_Id, UD.FirstName, UD.LastName, UD.Email,
UD.MobileNo,AD.H_No,AD.State
FROM User_Details UD
JOIN Address_Details AD
ON UD.Address_Id=AD.Address_Id
WHERE AD.city='NaviMumbai'
```



```
/*Problem 3:
Write a query to display the userid,firstname,lastname, email,mobileno, house no,
state who are residing in NaviMumbai.*/

--Solution:
SELECT UD.User_Id, UD.FirstName, UD.LastName, UD.Email, UD.MobileNo,AD.H_No,AD.State
FROM User_Details UD
JOIN Address_Details AD
ON UD.Address_Id=AD.Address_Id
WHERE AD.city='NaviMumbai'
```

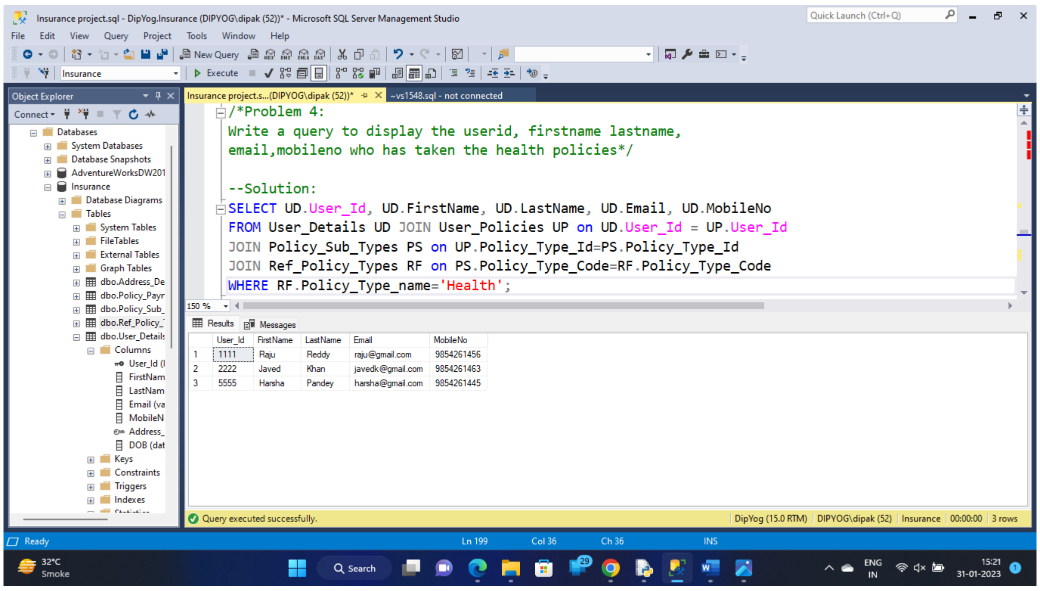
	User_Id	FirstName	LastName	Email	MobileNo	H_No	State
1	4444	Raghav	Patil	raghavp@gmail.com	9854261412	4-81	Maharashtra

Query executed successfully.

Problem 4: Write a query to display the userid, firstname lastname, email, MobileNo who has taken the health policies
--Solution:

```
SELECT UD.User_Id, UD.FirstName, UD.LastName, UD.Email, UD.MobileNo
FROM User_Details UD JOIN User_Policies UP on UD.User_Id = UP.User_Id
JOIN Policy_Sub_Types PS on UP.Policy_Type_Id=PS.Policy_Type_Id
JOIN Ref_Policy_Types RF on PS.Policy_Type_Code=RF.Policy_Type_Code
```

```
WHERE RF.Policy_Type_name='Health';
```



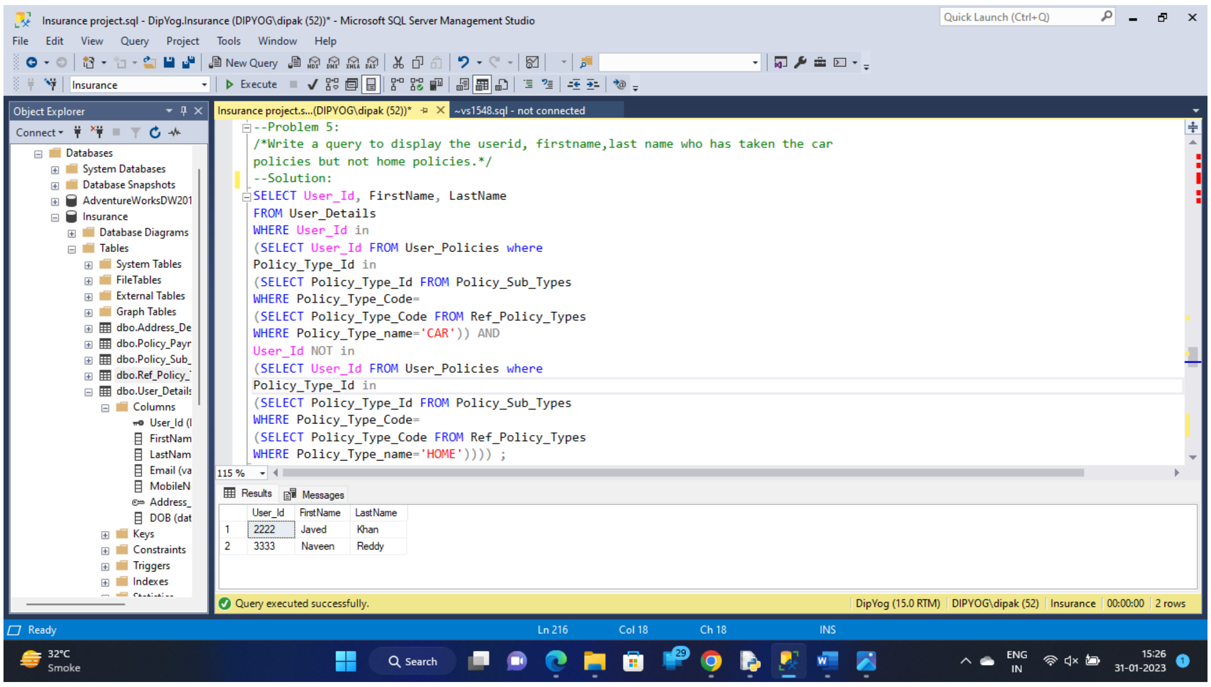
```
/*Problem 4:
Write a query to display the userid, firstname lastname,
email,mobileno who has taken the health policies*/

--Solution:
SELECT UD.User_Id, UD.FirstName, UD.LastName, UD.Email, UD.MobileNo
FROM User_Details UD JOIN User_Policies UP on UD.User_Id = UP.User_Id
JOIN Policy_Sub_Types PS on UP.Policy_Type_Id=PS.Policy_Type_Id
JOIN Ref_Policy_Types RF on PS.Policy_Type_Code=RF.Policy_Type_Code
WHERE RF.Policy_Type_name='Health';
```

	User_Id	FirstName	LastName	Email	MobileNo
1	1111	Raju	Reddy	raju@gmail.com	9854261456
2	2222	Javed	Khan	javedk@gmail.com	9854261463
3	5555	Harsha	Pandey	harsha@gmail.com	9854261445

Query executed successfully.

Problem 5: Write a query to display the User_Id, first name, last name who has taken the car policies but not home policies.

```
--Solution:
SELECT User_Id, FirstName, LastName
FROM User_Details
WHERE User_Id in
(SELECT User_Id FROM User_Policies where
Policy_Type_Id in
(SELECT Policy_Type_Id FROM Policy_Sub_Types
WHERE Policy_Type_Code=
(SELECT Policy_Type_Code FROM Ref_Policy_Types
WHERE Policy_Type_name='CAR')) AND
User_Id NOT in
(SELECT User_Id FROM User_Policies where
Policy_Type_Id in
(SELECT Policy_Type_Id FROM Policy_Sub_Types
WHERE Policy_Type_Code=
(SELECT Policy_Type_Code FROM Ref_Policy_Types
WHERE Policy_Type_name='HOME'))));
```



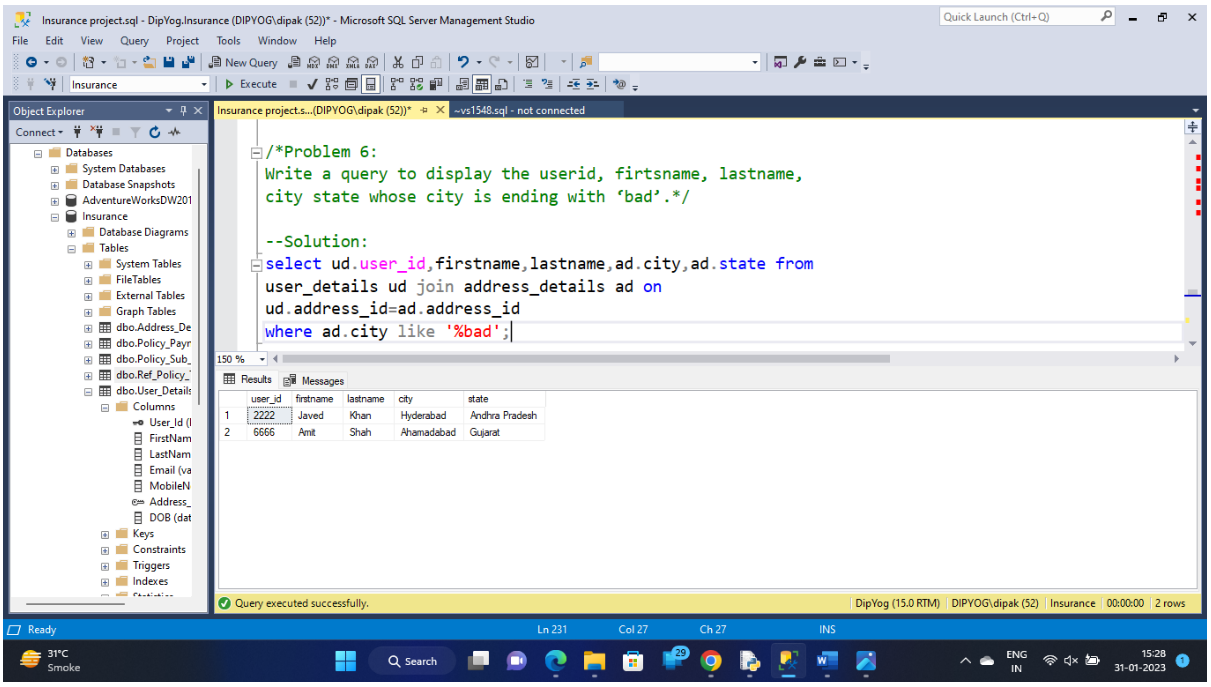
```
--Problem 5:
/*Write a query to display the userid, firstname,last name who has taken the car
policies but not home policies.*/
--Solution:
SELECT User_Id, FirstName, LastName
FROM User_Details
WHERE User_Id in
(SELECT User_Id FROM User_Policies where
Policy_Type_Id in
(SELECT Policy_Type_Id FROM Policy_Sub_Types
WHERE Policy_Type_Code=
(SELECT Policy_Type_Code FROM Ref_Policy_Types
WHERE Policy_Type_name='CAR')) AND
User_Id NOT in
(SELECT User_Id FROM User_Policies where
Policy_Type_Id in
(SELECT Policy_Type_Id FROM Policy_Sub_Types
WHERE Policy_Type_Code=
(SELECT Policy_Type_Code FROM Ref_Policy_Types
WHERE Policy_Type_name='HOME')))) ;
```

	User_Id	FirstName	LastName
1	2222	Javed	Khan
2	3333	Naveen	Reddy

Query executed successfully.

Problem 6: Write a query to display the userid, firtsname, lastname, city state whose city is ending with 'bad'.
--Solution:

```
select ud.user_id, firstname, lastname, ad.city, ad.state
from user_details ud join address_details ad on
ud.address_id=ad.address_id
where ad.city like '%bad';
```



```
/*Problem 6:
Write a query to display the userid, firtsname, lastname,
city state whose city is ending with ‘bad’.*/

--Solution:
select ud.user_id,firstname,lastname,ad.city,ad.state from
user_details ud join address_details ad on
ud.address_id=ad.address_id
where ad.city like '%bad';
```

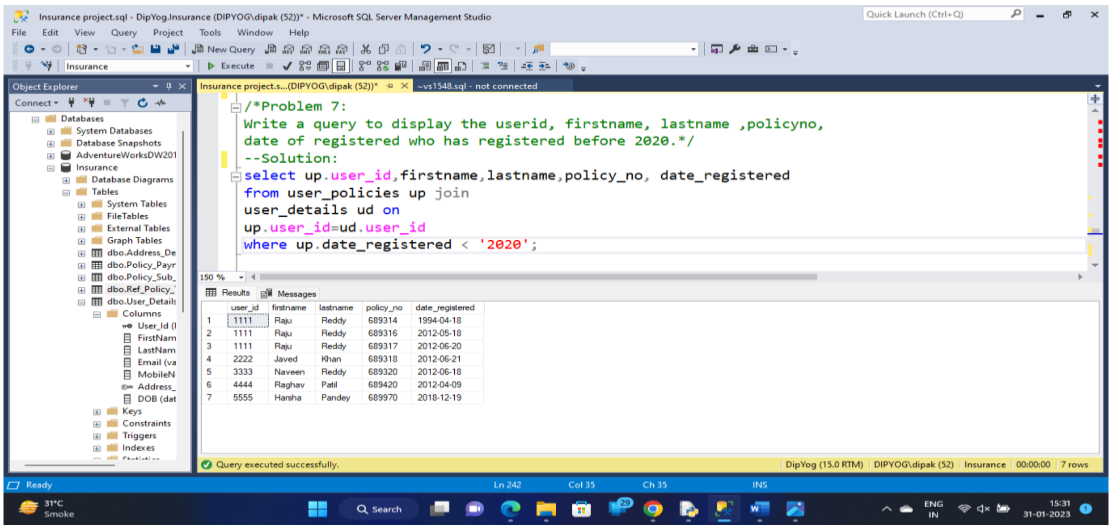
	user_id	firstname	lastname	city	state
1	2222	Javed	Khan	Hyderabad	Andhra Pradesh
2	6666	Amit	Shah	Ahamadabad	Gujarat

Query executed successfully.

Problem 7: Write a query to display the userid, firstname, lastname, policyno, date of registered who has registered before 2020.

--Solution:

select up.user_id,firstname,lastname,policy_no, date_registered
from user_policies up join
user_details ud on
up.user_id=ud.user_id
where up.date_registered < '2020';



```
/*Problem 7:
Write a query to display the userid, firstname, lastname ,policyno,
date of registered who has registered before 2020.*/
--Solution:
select up.user_id,firstname,lastname,policy_no, date_registered
from user_policies up join
user_details ud on
up.user_id=ud.user_id
where up.date_registered < '2020';
```

	user_id	firstname	lastname	policy_no	date_registered
1	1111	Raju	Reddy	689314	1994-04-18
2	1111	Raju	Reddy	689316	2012-05-18
3	1111	Raju	Reddy	689317	2012-06-20
4	2222	Javed	Khan	689318	2012-06-21
5	3333	Naveen	Reddy	689320	2012-06-18
6	4444	Raghav	Patil	689420	2012-04-09
7	5555	Harsha	Pandey	689970	2018-12-19

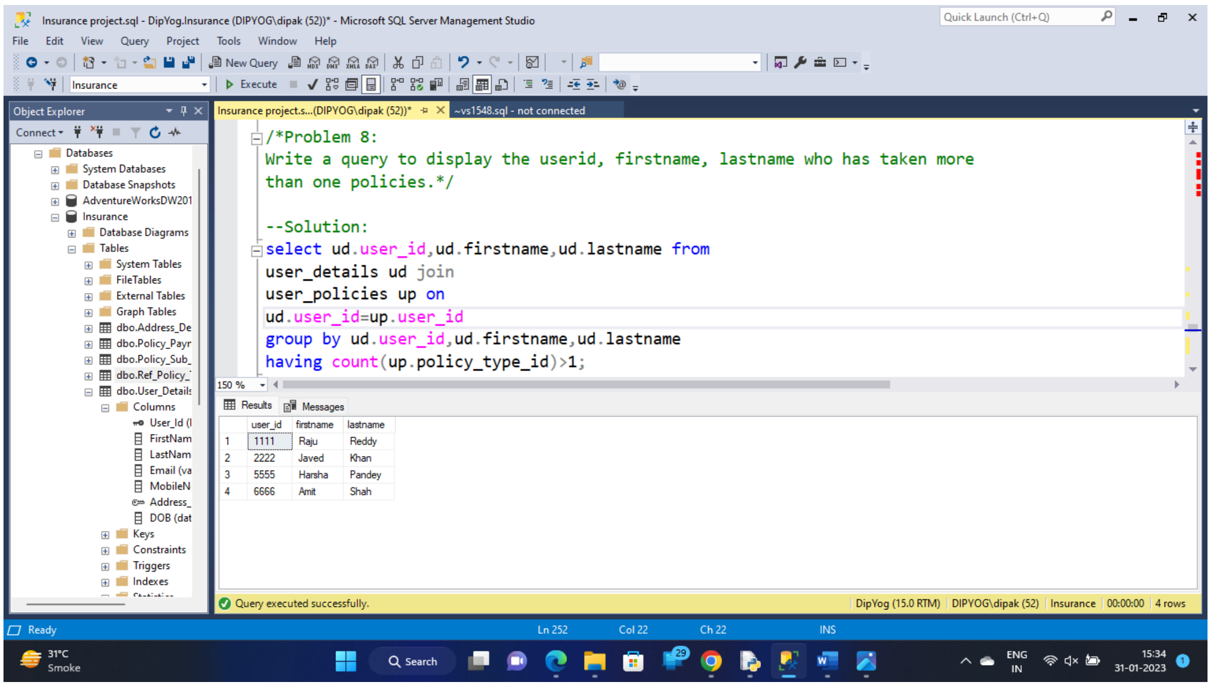
Query executed successfully.

Problem 8:
Write a query to display the userid, firstname, lastname who has taken more than one policies.

--Solution:

select ud.user_id,ud.firstname,ud.lastname from
user_details ud join

```
user_policies up on
ud.user_id=up.user_id
group by ud.user_id,ud.firstname,ud.lastname
having count(up.policy_type_id)>1;
```



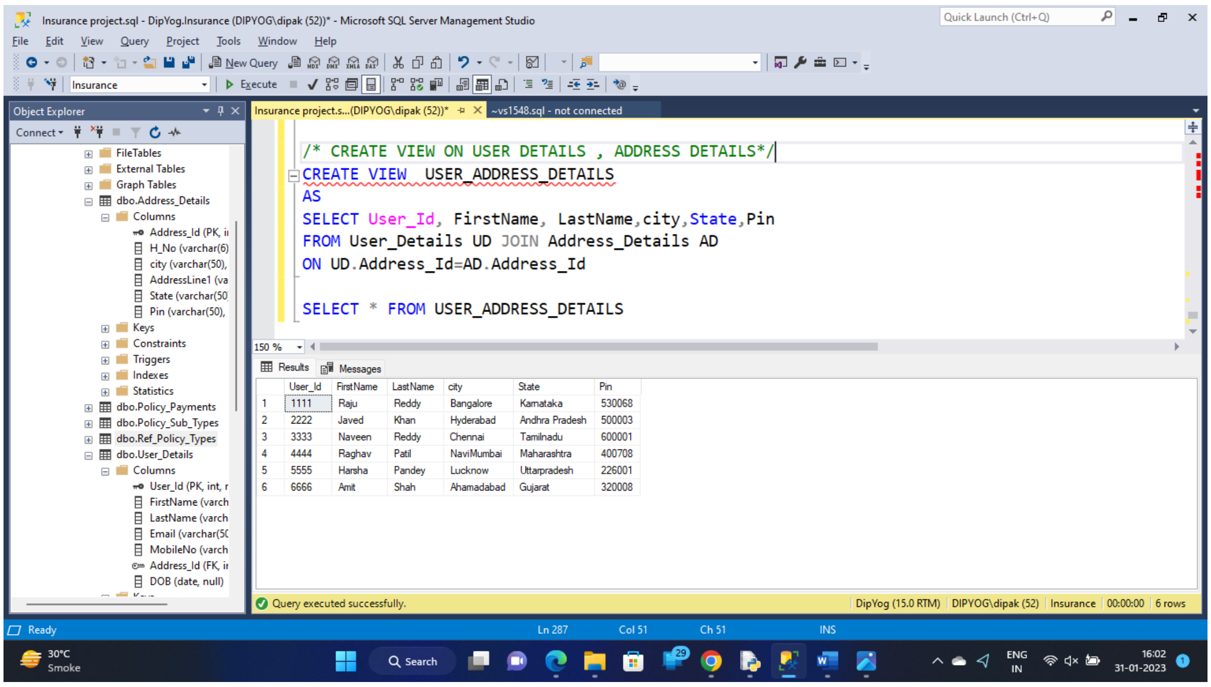
```
/*Problem 8:
Write a query to display the userid, firstname, lastname who has taken more
than one policies.*/

--Solution:
select ud.user_id,ud.firstname,ud.lastname from
user_details ud join
user_policies up on
ud.user_id=up.user_id
group by ud.user_id,ud.firstname,ud.lastname
having count(up.policy_type_id)>1;
```

	user_id	firstname	lastname
1	1111	Raju	Reddy
2	2222	Javed	Khan
3	5555	Harsha	Pandey
4	6666	Amit	Shah

Query executed successfully. DipYog (15.0 RTM) | DIPYOG\dipak (52) | Insurance | 00:00:00 | 4 rows

VIEW

```
/CREATE VIEW ON USER DETAILS , ADDRESS DETAILS
CREATE VIEW  USER_ADDRESS_DETAILS
AS
SELECT User_Id, FirstName, LastName,city,State,Pin
FROM User_Details UD JOIN Address_Details AD
ON UD.Address_Id=AD.Address_Id

SELECT * FROM USER_ADDRESS_DETAILS
```



```sql
/* CREATE VIEW ON USER DETAILS , ADDRESS DETAILS*/
CREATE VIEW  USER_ADDRESS_DETAILS
AS
SELECT User_Id, FirstName, LastName,city,State,Pin
FROM User_Details UD JOIN Address_Details AD
ON UD.Address_Id=AD.Address_Id

SELECT * FROM USER_ADDRESS_DETAILS
```

	User_Id	FirstName	LastName	city	State	Pin
1	1111	Raju	Reddy	Bangalore	Kamataka	530068
2	2222	Javed	Khan	Hyderabad	Andhra Pradesh	500003
3	3333	Naveen	Reddy	Chennai	Tamilnadu	600001
4	4444	Raghav	Patil	NaviMumbai	Maharashtra	400708
5	5555	Harsha	Pandey	Lucknow	Uttarpradesh	226001
6	6666	Amit	Shah	Ahamadabad	Gujarat	320008

Query executed successfully.