**------------------------------Module 1----------------------------------**

**SQLSERVER Task 1-Perform the Normalization**

**------------------------------2NF Normalization tables----------------------------**

---Table using Normalization---

---create parent and child table—

---ER DIAGRAM---

**Diagram

Description automatically generated**

**create** **table** healthcare

(

Patient\_Id **int** **primary** **key**,

Patient\_Name **varchar**(50),

Hospital\_Address **varchar**(50),

Disease\_Identified **varchar**(50),

Doctor\_Id **int**

)

**create** **table** Doctors

(

Doctor\_id **int** **primary** **key**,

Doctor\_Name **varchar**(50),

Department\_id **int**,

Mobile\_Number **float**

)

**create** **table** hospital

(

hospital\_address **varchar**(50) **primary** **key**,

hospital\_id **int**,

location\_id **int**

)

---inserting healthcare table values---

**insert** **into** Healthcare **values**(100,'John','Mangalore','Dengue',1),

(101,'Maggi','Bangalore','Leprosy',2),(102,'Julie','Moodbidri','Chikungunya',3),

(103,'Kris','Mumbai','Malaria',3),(104,'Jia','Venur','Rabies',6),(105,'Mia','Chikmangalore','Snakebite',7),

(106,'Sheela','Moodbidri','Trachoma',4),(107,'Ravi','Mangalore','Leprosy',2),(108,'Malkova','Ujire','Scabies',4),

(109,'Mel','Venur','Trematodiases',5),(110,'Manoj','Belthangady','Dengue',1),(111,'Randy','Pune','Chikungunya',3),

(112,'Jorge','Mangalore','Rabies',6),(113,'Lavanya','Ujire','Scabies',4),(114,'Vishal','Mangalore','Leprosy',2),

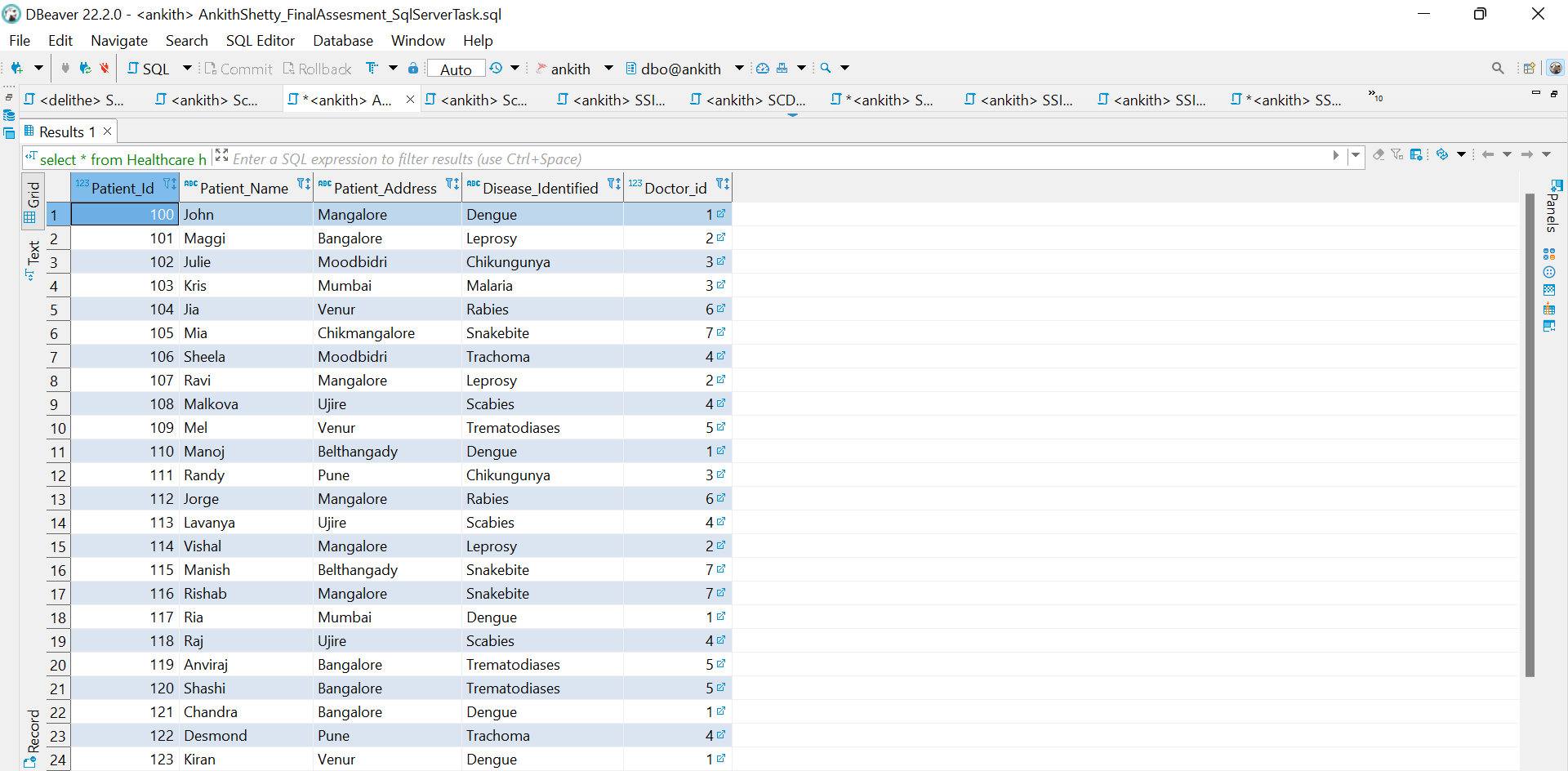
(115,'Manish','Belthangady','Snakebite',7),(116,'Rishab','Mangalore','Snakebite',7),(117,'Ria','Mumbai','Dengue',1),

(118,'Raj','Ujire','Scabies',4),(119,'Anviraj','Bangalore','Trematodiases',5),(120,'Shashi','Bangalore','Trematodiases',5),

(121,'Chandra','Bangalore','Dengue',1),(122,'Desmond','Pune','Trachoma',4),(123,'Kiran','Venur','Dengue',1),

(124,'Laxmi','Pune','Chikungunya',3),(125,'Ashish','Chikmangalore','Malaria',3),(126,'Mohan','Belthangady','Rabies',6)

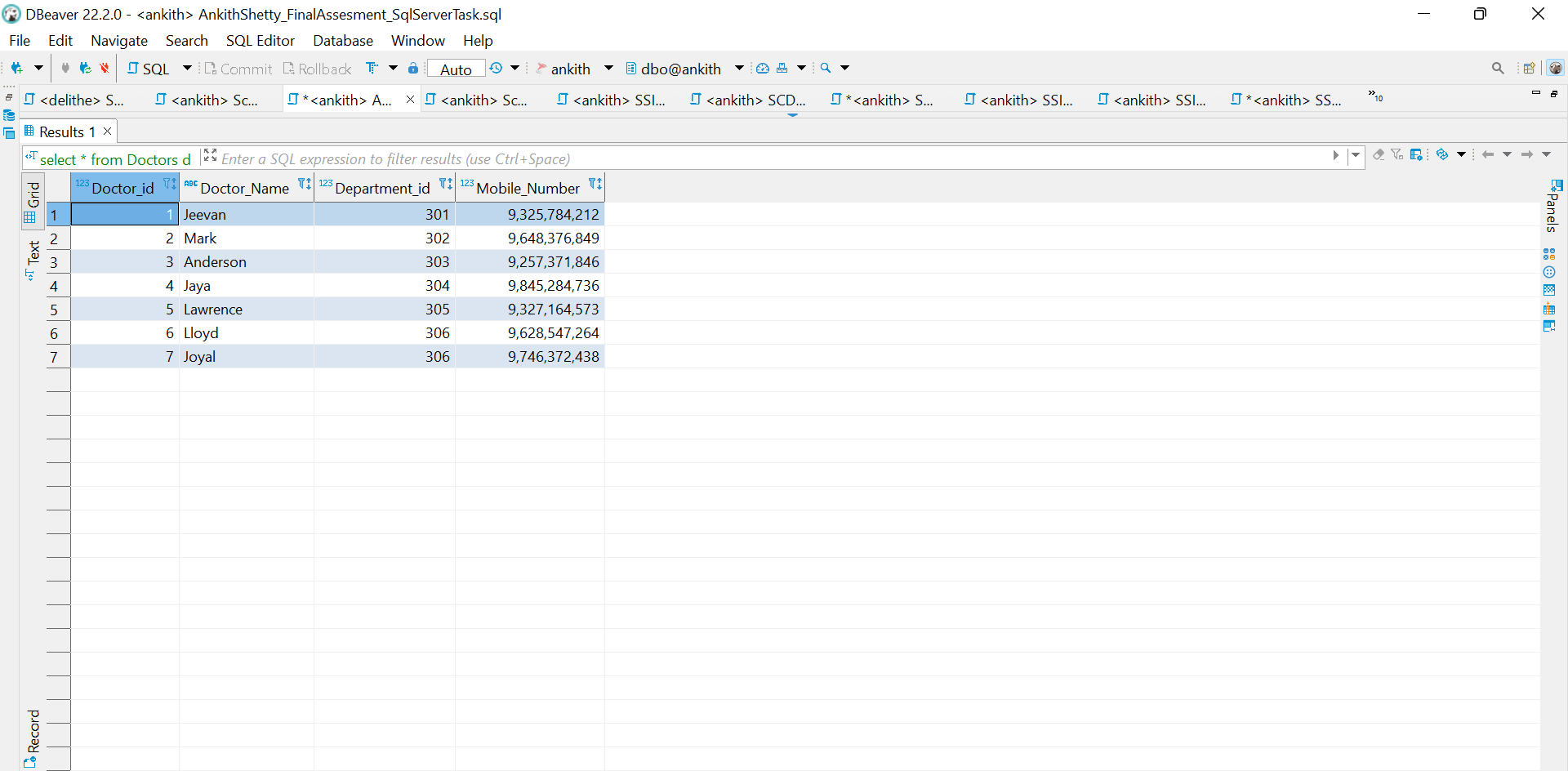
**select** \* **from** Healthcare h



---inserting doctors table values---

**insert** **into** Doctors **values** (1,'Jeevan',301,9325784212),(2,'Mark',302,9648376849),(3,'Anderson',303,9257371846),

(4,'Jaya',304,9845284736),(5,'Lawrence',305,9327164573),(6,'Lloyd',306,9628547264),(7,'Joyal',306,9746372438)



---insert hospital table value---

**insert** **into** hospital **values**('Mangalore',10000,575001),('Bangalore',10001,472024),

('Moodbidri',10002,574217),('Mumbai',10003,217483),('venur',10004,574001),

('Chikmangalore',10005,574217),

('Ujire',10006,470832),('Pune',10007,832944),('Belthangady',10008,224217)

Application

Description automatically generated with low confidence

---foreign key reference---

**Alter** **table** Healthcare

**add** **constraint** FK\_Doctor\_Id

**foreign** **key**(Doctor\_id)

**references** Doctors

---foreign key reference---

**Alter** **table** Healthcare

**add** **constraint** FK\_Hospital\_address

**foreign** **key**(hospital\_address)

**references** hospital

**select** \* **from** Healthcare

---foreign key reference in source healthcare parent table---

Graphical user interface, application

Description automatically generated

---foreign key confirmation---

**insert** **into** Healthcare **values**(128,'george','mangalore','Cancer',8)

**select** \* **from** HealthcareGraphical user interface, application, Word

Description automatically generated

---foreign key confirmation---

**insert** **into** Healthcare **values**(102,'george','Jammu','Cancer',6)

**select** \* **from** Healthcare

Graphical user interface, text, application, email

Description automatically generated

--- inner join ---

**select** H.Patient\_Id ,H.Patient\_Name ,H.Hospital\_Address,H.Disease\_Identified,H.Doctor\_id,

Doc.Doctor\_name,Doc.Department\_id,Doc.Mobile\_Number

**from** Healthcare **as** H

**inner** **join** Doctors **as** Doc **on** H.Doctor\_id=Doc.Doctor\_id

Graphical user interface, application

Description automatically generated

---Left join---

**select** H.Patient\_Id ,H.Patient\_Name ,H.Patient\_Address,H.Disease\_Identified,H.Doctor\_id,

Doc.Doctor\_name,Doc.Department\_id,Doc.Mobile\_Number

**from** Healthcare **as** H

**Left** **join** Doctors **as** Doc

**on** H.Doctor\_id=Doc.Doctor\_id

Graphical user interface, application

Description automatically generated

---Right join---

**select** H.Patient\_Id ,H.Patient\_Name ,H.Patient\_Address,H.Disease\_Identified,H.Doctor\_id,

Doc.Doctor\_name,Doc.Department\_id,Doc.Mobile\_Number

**from** Healthcare **as** H

**Right** **join** Doctors **as** Doc

**on** H.Doctor\_id=Doc.Doctor\_id

Graphical user interface, application

Description automatically generated

---full join---

**select** H.Patient\_Id ,H.Patient\_Name ,H.Patient\_Address,H.Disease\_Identified,H.Doctor\_id,

Doc.Doctor\_name,Doc.Department\_id,Doc.Mobile\_Number

**from** Healthcare **as** H

**full** **join** Doctors **as** Doc

**on** H.Doctor\_id=Doc.Doctor\_id

A screenshot of a computer

Description automatically generated with medium confidence

---Inner Join with all 3 tables----

**select** H.Patient\_Id ,H.Patient\_Name ,H.Hospital\_Address,H.Disease\_Identified,H.Doctor\_id,

Doc.Doctor\_name,Doc.Department\_id,Doc.Mobile\_Number,hosp.Hospital\_Address ,hosp.hospital\_id, hosp.location\_id

**from** ((Healthcare **as** H

**inner** **join** Doctors **as** Doc

**on** H.Doctor\_id=Doc.Doctor\_id)

**inner** **join** hospital **as** hosp

**on** h.hospital\_address=hosp.hospital\_address);

**Graphical user interface, application

Description automatically generated**

**---------------------------------Creating views------------------------------------------**

**create** **view** new\_healthcare

**as** **select** \* **from** Healthcare h

**select** \* **from** new\_healthcare

Table

Description automatically generated

---DDL,DQL and inner join commands on view---

**alter** **view** new\_healthcare

**as** **select** H.Patient\_Id ,H.Patient\_Name ,H.Patient\_Address,H.Disease\_Identified,H.Doctor\_id,

Doc.Doctor\_name,Doc.Department\_id,Doc.Mobile\_Number

**from** Healthcare **as** H

**inner** **join** Doctors **as** Doc

**on** H.Doctor\_id=Doc.Doctor\_id

**select** \* **from** new\_healthcare

Graphical user interface, text

Description automatically generated

---Left join---

**alter** **view** new\_healthcare

**as** **select** H.Patient\_Id ,H.Patient\_Name ,H.Patient\_Address,H.Disease\_Identified,H.Doctor\_id,

Doc.Doctor\_name,Doc.Department\_id,Doc.Mobile\_Number

**from** Healthcare **as** H

**left** **join** Doctors **as** Doc

**on** H.Doctor\_id=Doc.Doctor\_id

**select** \* **from** new\_healthcareGraphical user interface

Description automatically generated

---Right join---

**alter** **view** new\_healthcare

**as** **select** H.Patient\_Id ,H.Patient\_Name ,H.Patient\_Address,H.Disease\_Identified,H.Doctor\_id,

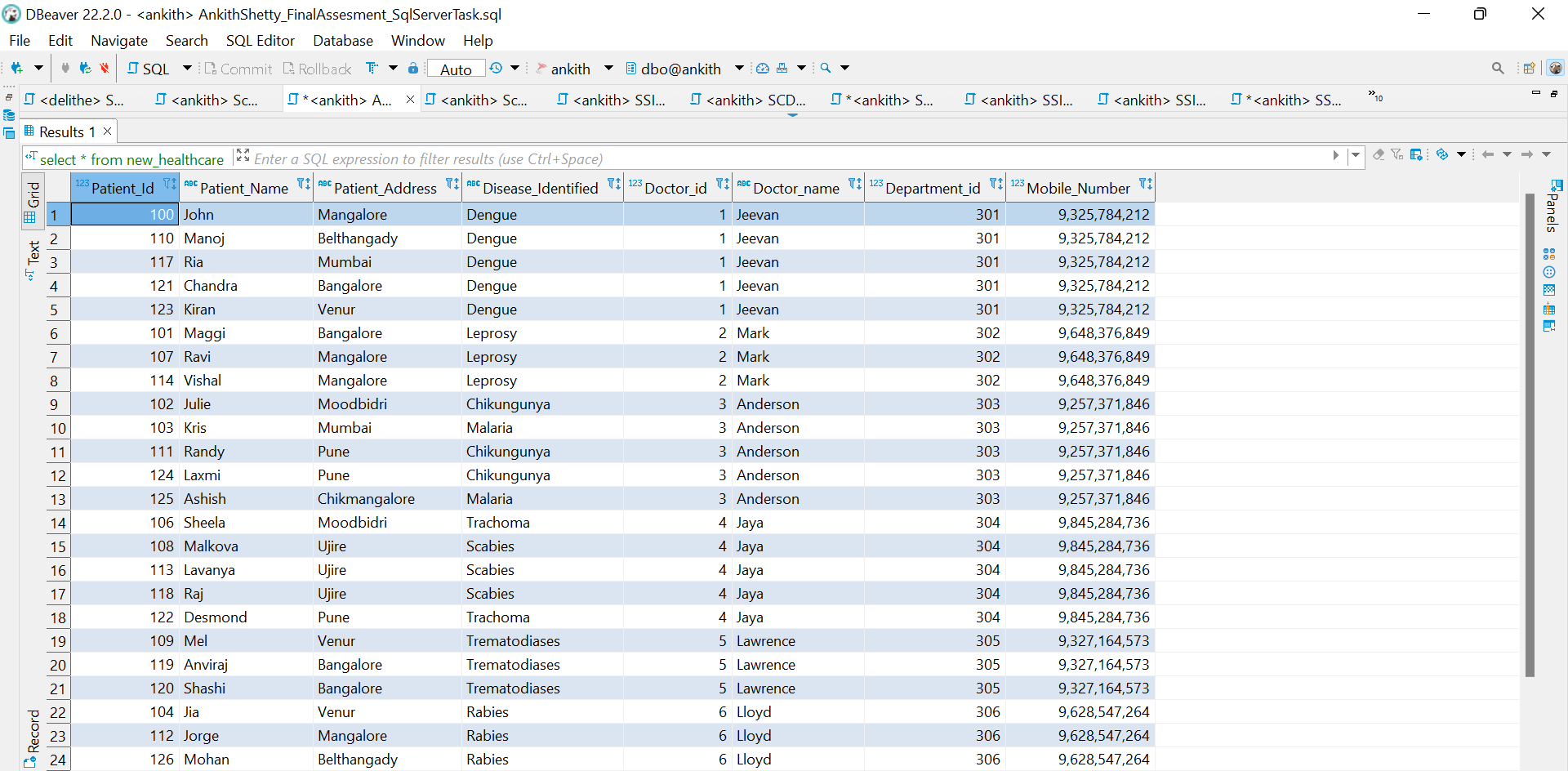
Doc.Doctor\_name,Doc.Department\_id,Doc.Mobile\_Number

**from** Healthcare **as** H

**Right** **join** Doctors **as** Doc

**on** H.Doctor\_id=Doc.Doctor\_id

**select** \* **from** new\_healthcare



---Full join---

**alter** **view** new\_healthcare

**as** **select** H.Patient\_Id ,H.Patient\_Name ,H.Patient\_Address,H.Disease\_Identified,H.Doctor\_id,

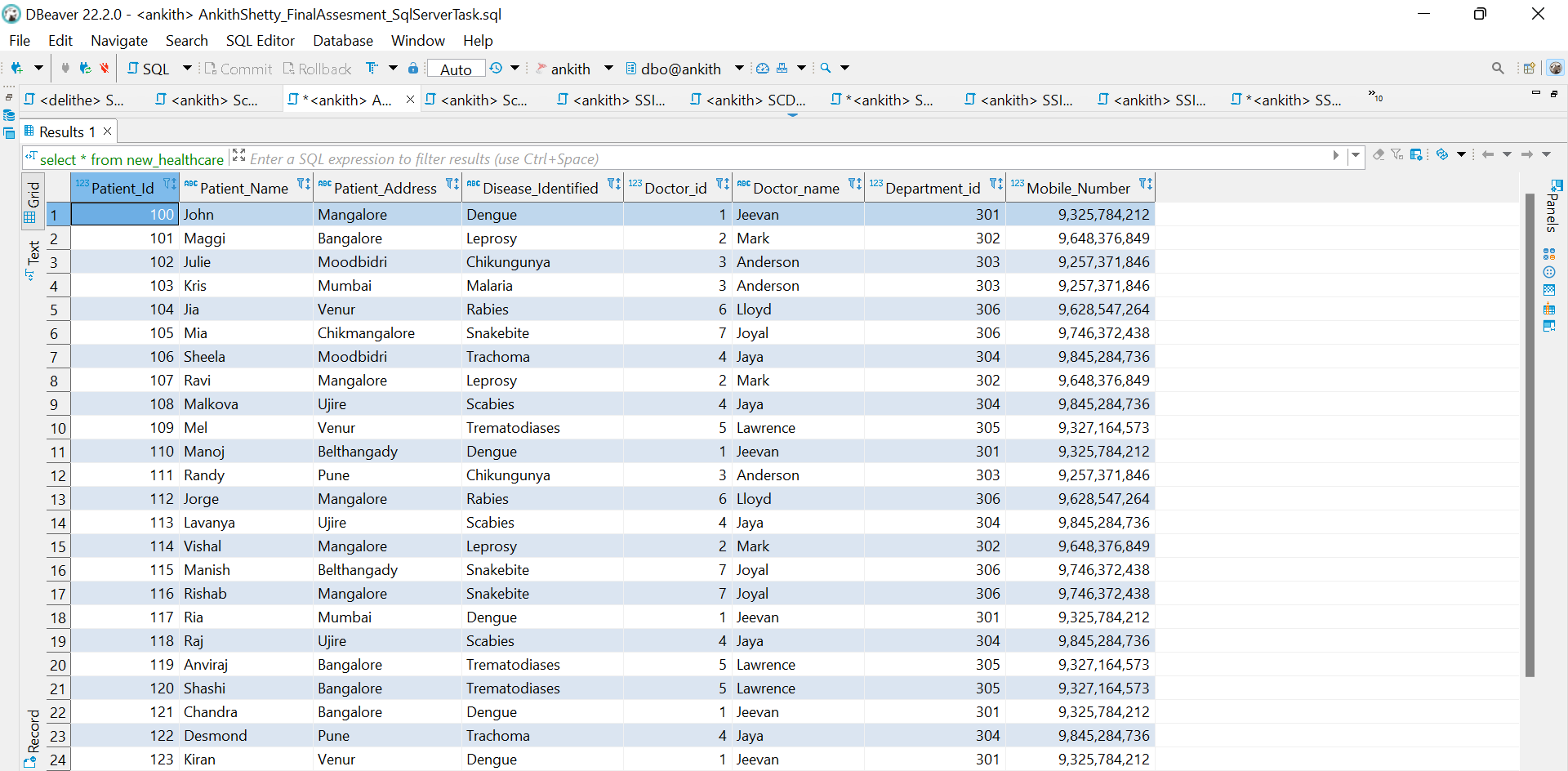
Doc.Doctor\_name,Doc.Department\_id,Doc.Mobile\_Number

**from** Healthcare **as** H

**Full** **join** Doctors **as** Doc

**on** H.Doctor\_id=Doc.Doctor\_id

**select** \* **from** new\_healthcare



**--------------Module 1--------------**

**SQLSERVER Task 2- Using transaction table perform various operations ( DDL,DML,DCL,TCL)**

---Create Cinema Table---

**CREATE** **TABLE** Cinema(

[Film\_Type] **nvarchar**(255),

[film\_code] **float**,

[cinema\_code] **float**,

[total\_sales] **float**,

[tickets\_sold] **float**,

[tickets\_out] **float**,

[show\_time] **float**,

[occu\_perc] **float**,

[ticket\_price] **float**,

[ticket\_use] **float**,

[capacity] **float**,

[date] **float**,

[month] **float**,

[quarter] **float**,

[day] **float**

)

---dml,dql,ddl on cinema---

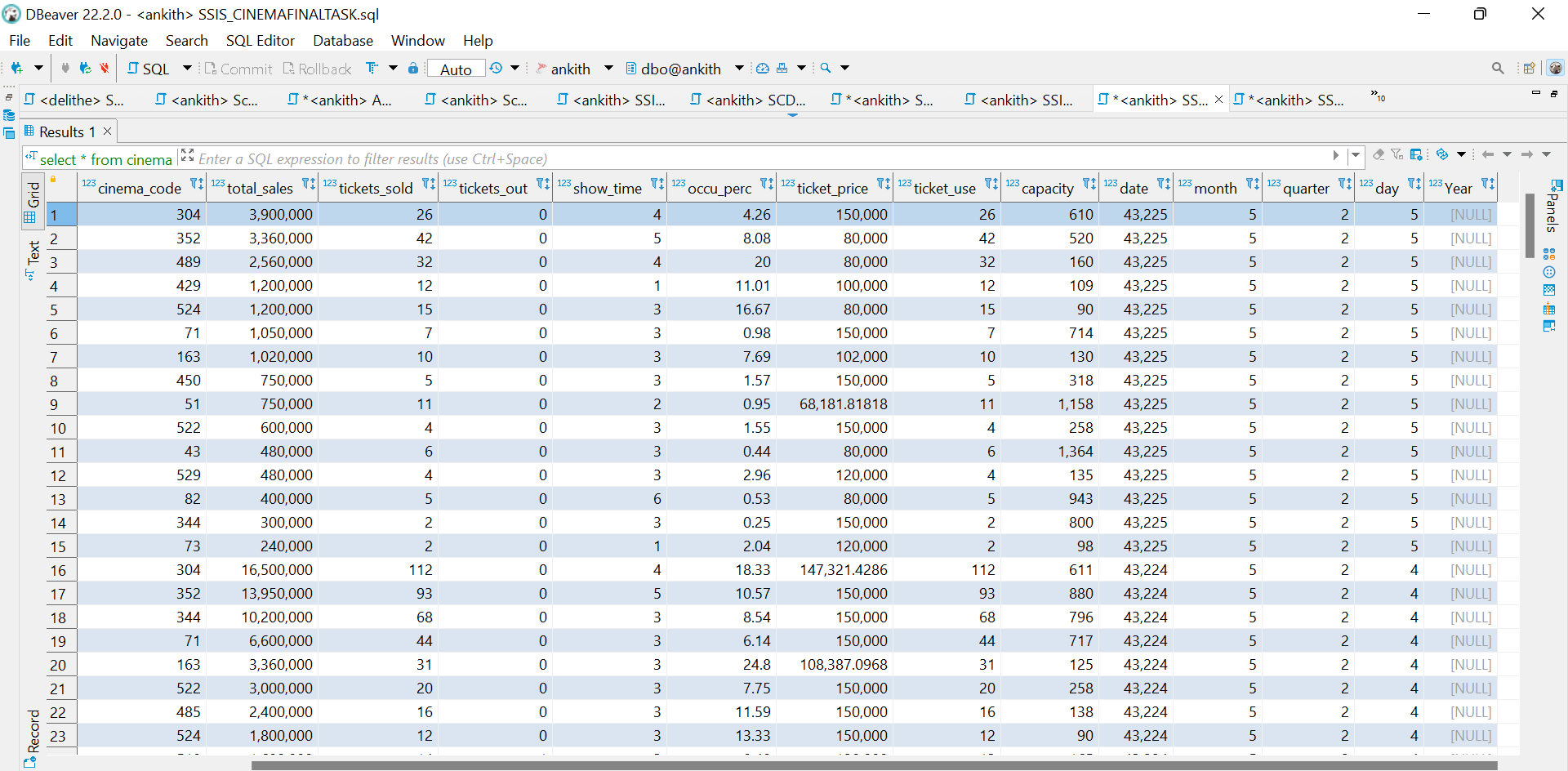
**select** \* **from** cinema

Graphical user interface, application, table

Description automatically generated

**alter** **table** cinema

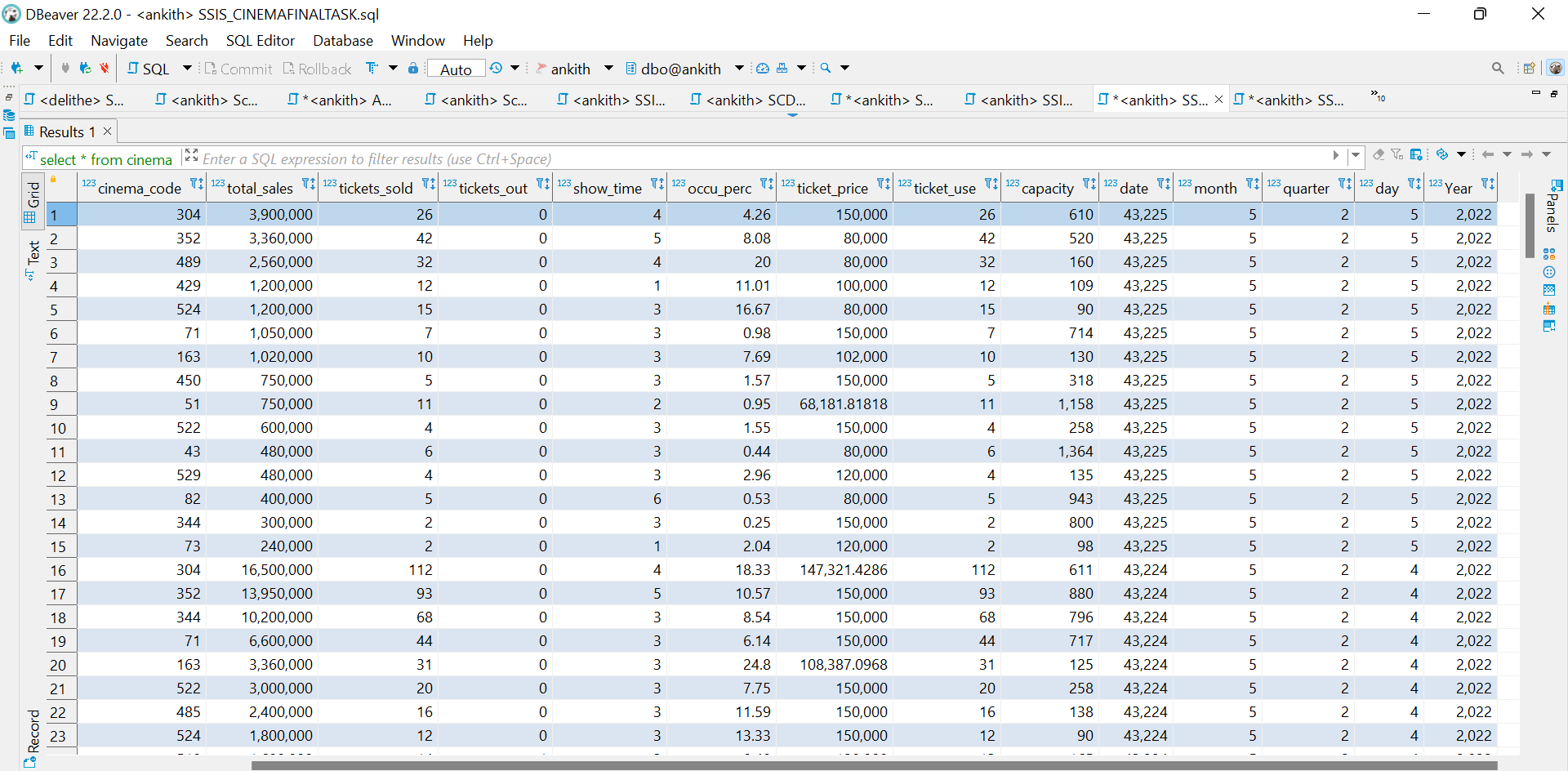
**add** **Year** **int**

**select** \* **from** cinema

**update** Cinema **set**

**year**=2022

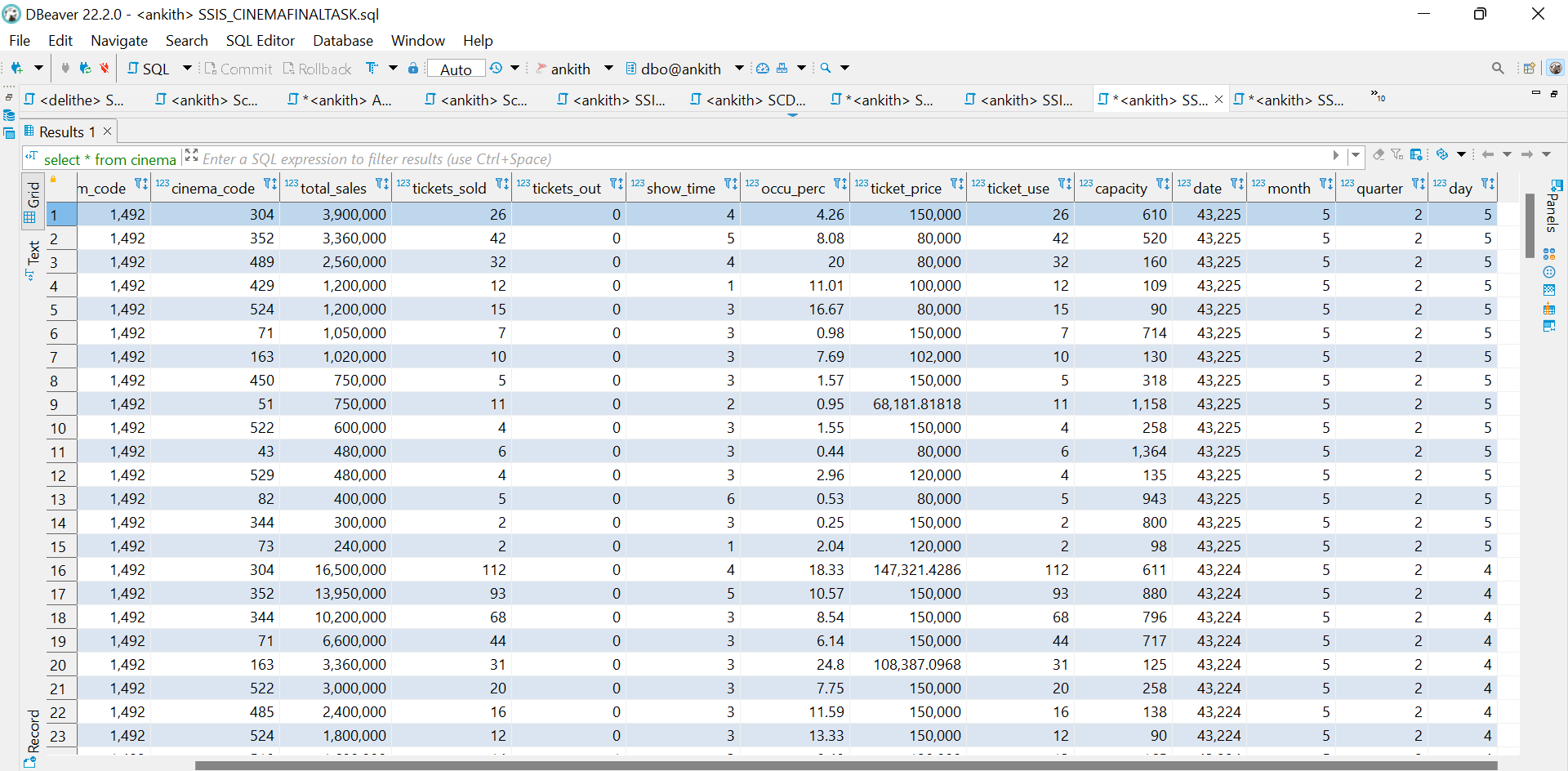
**select** \* **from** cinema



**alter** **table** cinema

**drop** **column** **year**

**select** \* **from** cinema



**----------2nd DATA SOURCE-----------**

-------create Loan Table----------

**CREATE** **TABLE** Loan (

LoanNr\_ChkDgt **float**,

Name **nvarchar**(255),

City **nvarchar**(255),

State **nvarchar**(255),

Zip **float**,

Bank **nvarchar**(255),

BankState **nvarchar**(255),

NAICS **float**,

ApprovalDate **datetime**,

ApprovalFY **float**,

Term **float**,

NoEmp **float**,

NewExist **float**,

CreateJob **float**,

RetainedJob **float**,

FranchiseCode **float**,

UrbanRural **float**,

RevLineCr **nvarchar**(255),

LowDoc **nvarchar**(255),

ChgOffDate **datetime**,

DisbursementDate **datetime**,

DisbursementGross **nvarchar**(255),

BalanceGross **nvarchar**(255),

MIS\_Status **nvarchar**(255),

ChgOffPrinGr **nvarchar**(255),

GrAppv **nvarchar**(255),

SBA\_Appv **nvarchar**(255)

)

**select** \* **from** loan

Graphical user interface, application, table

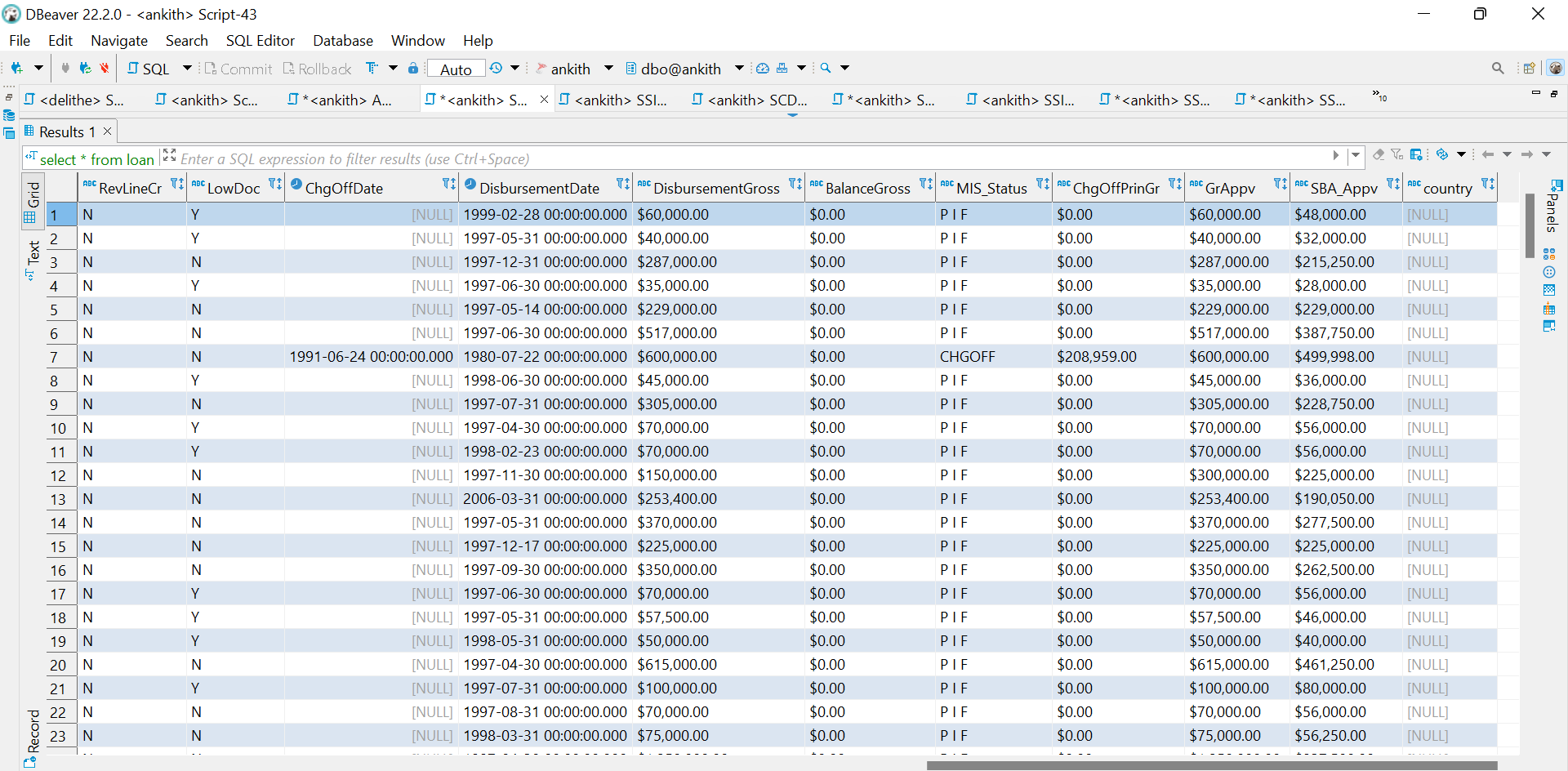
Description automatically generated

---DDL commands(alter)---

**alter** **table** Loan

**add** country **varchar**(50);

**select** \* **from** loan



---DML command(Update) and TCL command(SET)---

**update** [Loan]

**SET** country='Indiana'

**where** city='EVANSVILLE';

**select** \* **from** Loan

Graphical user interface, table

Description automatically generated

---DQL Command---

**select** \* **from** loan **where** city='EVANSVILLE';

Graphical user interface, application, table

Description automatically generated

**alter** **table** Loan

**drop** **column** country

**select** \* **from** Loan

Graphical user interface, table

Description automatically generated