---------------SQL SERVER TASK----

Creation and insertion

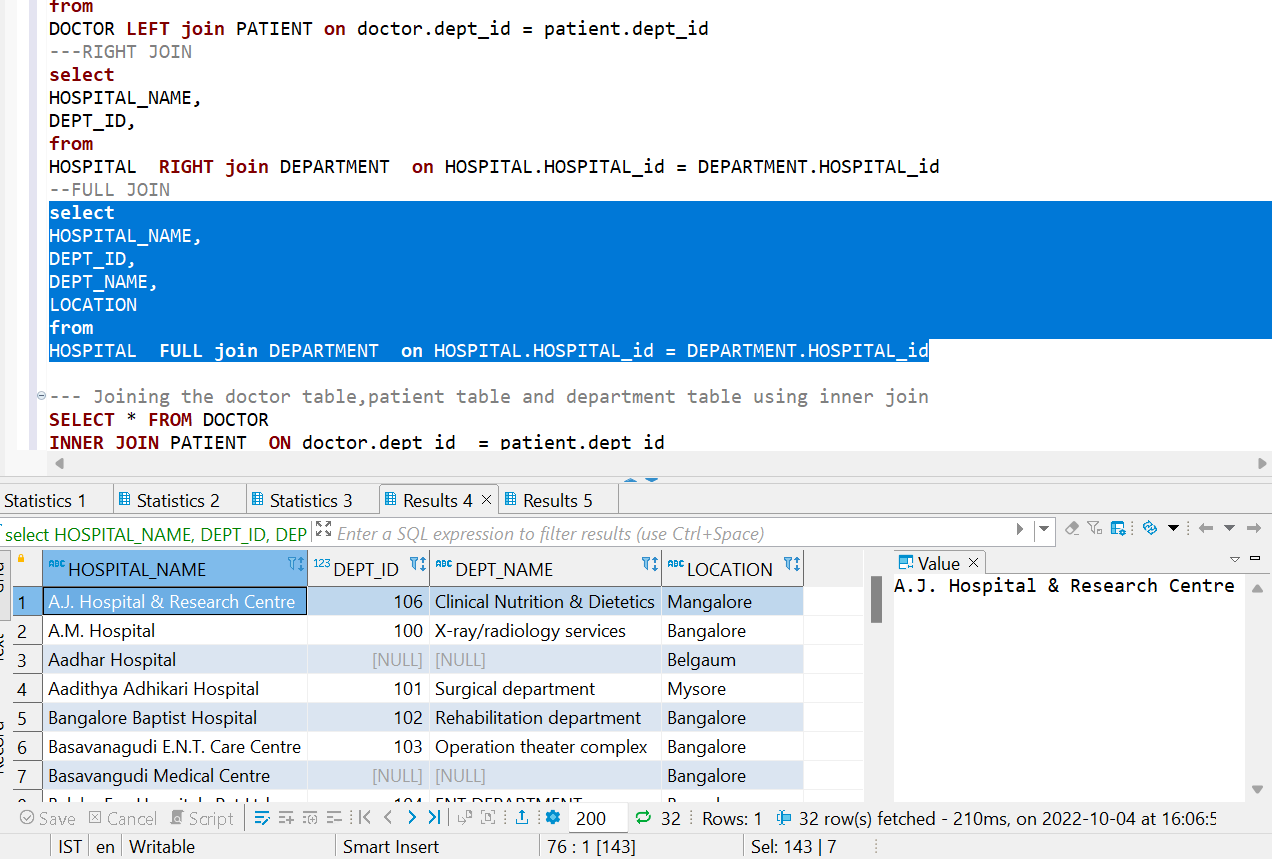
Graphical user interface, text, application

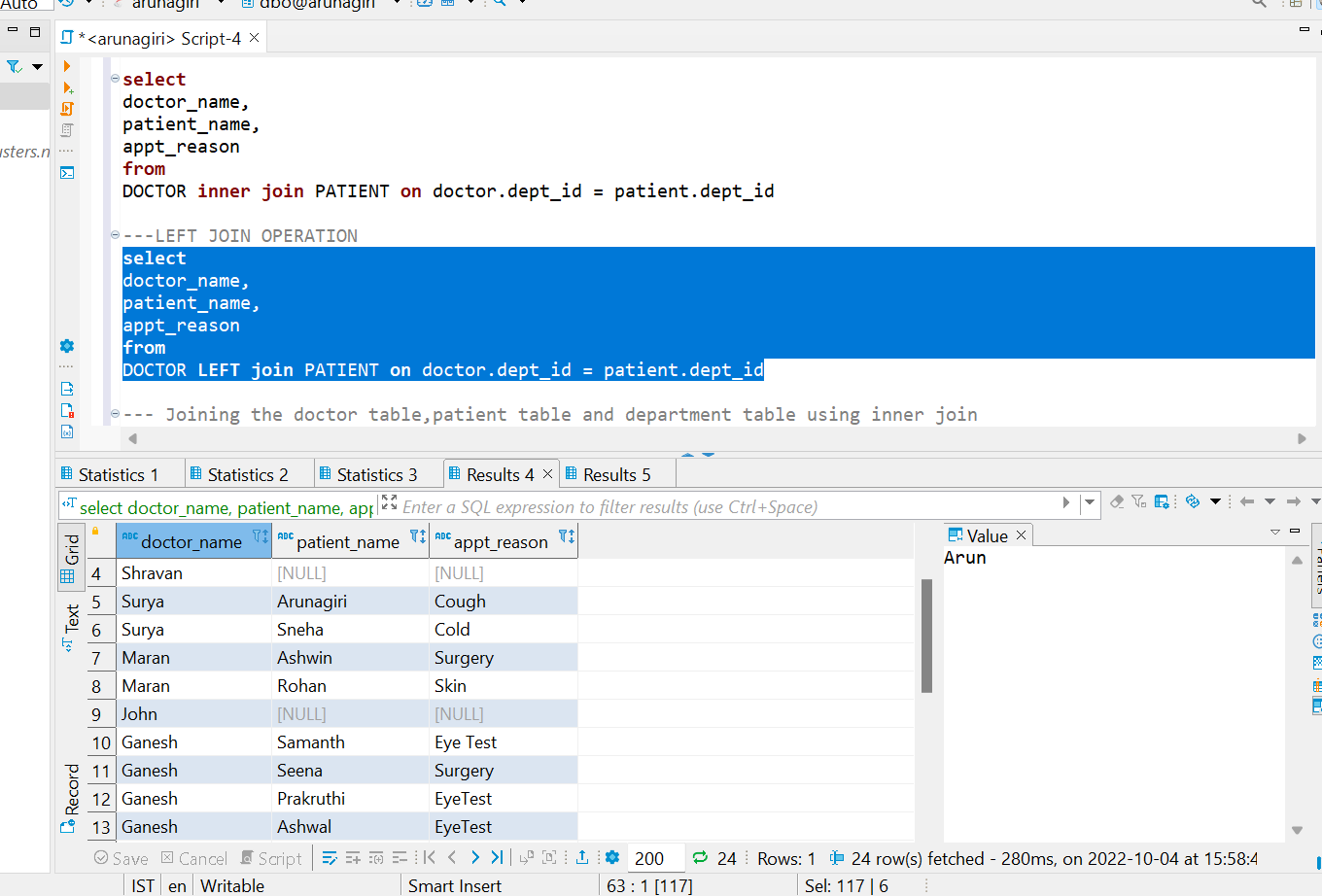
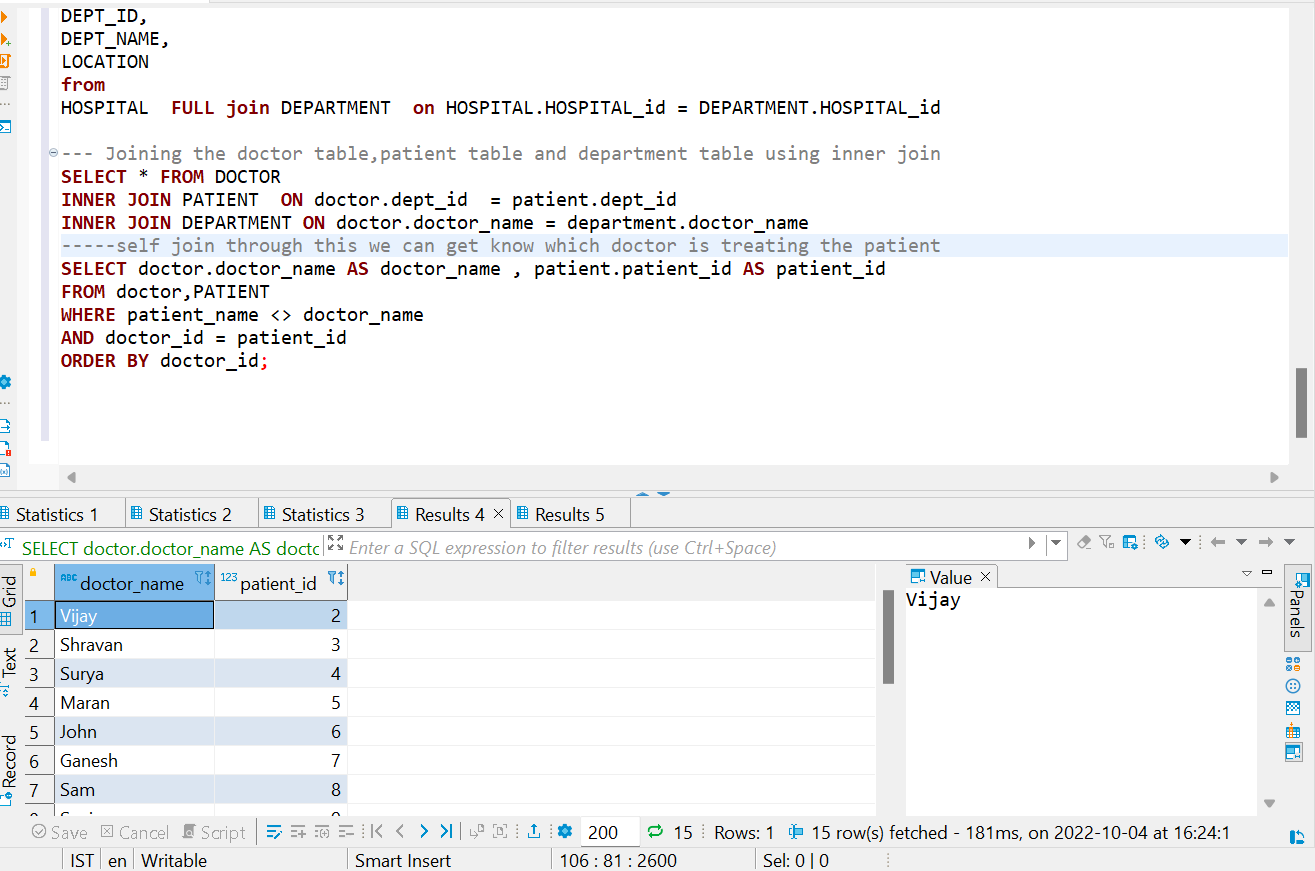
Description automatically generated

Graphical user interface

Description automatically generated with medium confidence

Joins

Graphical user interface, application

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

Views

Graphical user interface, text, application

Description automatically generated

Task 2

**-----CREATION OF SOURCE TABLES USING GIVEN DATA SOURCE**

**CREATE** **TABLE** FA\_SALES\_2 (

SupplierID **INT**,

SupplierAddress **VARCHAR**(100),

SupplierName **VARCHAR**(100),

SupplierContactDetails **VARCHAR**(100),

ProductID **FLOAT**,

CarMaker **VARCHAR**(100),

CarModel **VARCHAR**(100),

CarColor **VARCHAR**(100),

CarModelYear **INT**,

CarPrice **FLOAT**,

CustomerID **VARCHAR**(100),

CustomerName **VARCHAR**(100),

Gender **VARCHAR**(100),

JobTitle **VARCHAR**(100),

PhoneNumber **VARCHAR**(100),

EmailAddress **VARCHAR**(100),

City **VARCHAR**(100),

Country **VARCHAR**(100),

CountryCode **VARCHAR**(100),

State **VARCHAR**(100),

CustomerAddress **VARCHAR**(100),

OrderDate **INT**,

OrderID **FLOAT**,

ShipDate **INT**,

ShipMode **VARCHAR**(100),

Shipping **VARCHAR**(100),

PostalCode **INT**,

Sales **FLOAT**,

Quantity **INT**,

Discount **VARCHAR**(100),

CreditCardType **VARCHAR**(100),

CreditCard **VARCHAR**(100),

CustomerFeedback **VARCHAR**(100)

)

----DDL OPERATION OF SALES

---CREATE OPERATION--

**CREATE** **TABLE** FA\_SALES\_2 (

SupplierID **INT**,

SupplierAddress **VARCHAR**(100),

SupplierName **VARCHAR**(100),

SupplierContactDetails **VARCHAR**(100),

ProductID **FLOAT**,

CarMaker **VARCHAR**(100),

CarModel **VARCHAR**(100),

CarColor **VARCHAR**(100),

CarModelYear **INT**,

CarPrice **FLOAT**,

CustomerID **VARCHAR**(100),

CustomerName **VARCHAR**(100),

Gender **VARCHAR**(100),

JobTitle **VARCHAR**(100),

PhoneNumber **VARCHAR**(100),

EmailAddress **VARCHAR**(100),

City **VARCHAR**(100),

Country **VARCHAR**(100),

CountryCode **VARCHAR**(100),

State **VARCHAR**(100),

CustomerAddress **VARCHAR**(100),

OrderDate **INT**,

OrderID **FLOAT**,

ShipDate **INT**,

ShipMode **VARCHAR**(100),

Shipping **VARCHAR**(100),

PostalCode **INT**,

Sales **FLOAT**,

Quantity **INT**,

Discount **VARCHAR**(100),

CreditCardType **VARCHAR**(100),

CreditCard **VARCHAR**(100),

CustomerFeedback **VARCHAR**(100)

)

**SELECT** \* **FROM** FA\_SALES\_2

**select** \* **from** FA\_INSURANCE

---DML OPERATION

**INSERT** **INTO** FA\_SALES\_2 **VALUES** (559,'9087 Bonner dro','Trupe',471-08-6486,8876.0,'Infiniti','Q','Orange',2001,757878.29,63187-087,'Eveleen Rittelmeyer','Female' ,'Professor',602-153-9389,'erittelmeyerfd@hao123.com','Phoenix','United States','US','Arizona','1 Independence Circle',43483.0,54868-4381,43624.0,'First Class','Truck',21265.0,779769.27,1,0.58,'jcb',3553500000000000,'Good')

--ddl alter operation

**alter** **table** FA\_SALES\_2 **alter** **column** customerfeedback **varchar**(200)---increasing the datatype length

--update operation

**update** FA\_SALES\_2 **set** Suppliername ='arun' **where** supplierid=1

**select**\***from** FA\_INSURANCE

**select**\***from** FA\_INSURANCE **where** CATEGORY\_NAME = 'NEPHROLOGY' ;--SELECTING PARTICULAR DEPARTMENT

**select**\***from** FA\_INSURANCE **where** CLAIM\_AMOUNT>=29000;---CHECKING CLAIM AMOUNT GRETER THAN OR EQUAL TO 29000

**select**\***from** FA\_INSURANCE **where** CLAIM\_AMOUNT<=9000;---CHECKING CLAIM AMOUNT GRETER THAN OR EQUAL TO 9000

**select**\***from** FA\_INSURANCE **where** CLAIM\_AMOUNT!=9000;--CHECKING CLAIM AMOUNT NOT EQUAL TO 9000

**select**\***from** FA\_INSURANCE **where** CLAIM\_AMOUN<>12008; --NOT EQUAL TO OPERATION

----NULL OPERATIONS

**select**\***from** FA\_INSURANCE **where** CATEGORY\_CODE **IS** **NULL**

**select**\***from** FA\_INSURANCE **where** CATEGORY\_CODE **IS** **NOT** **NULL**

**select**\***from** FA\_INSURANCE **where** CATEGORY\_CODE **IS** **NULL** **OR** AGE **IS** **NULL**

**select**\***from** FA\_INSURANCE **where** AGE **IS** **NULL** **OR** CATEGORY\_CODE **IS** **NOT** **NULL**

**select**\***from** FA\_INSURANCE **where** CASTE\_NAME **IS** **NULL** **AND** CATEGORY\_NAME **IS** **NULL**

-----IN AND NOT IN OPERATIONS

**select**\***from** FA\_INSURANCE **where** CATEGORY\_CODE **IN**('M6','M5')

**select**\***from** FA\_INSURANCE **where** CATEGORY\_CODE **NOT** **IN**(101,201,130,140)

----LIKE OPERATION

**select**\***from** FA\_INSURANCE **where** HOSP\_DISTRICT **LIKE** '%A%'**AND** MANDAL\_NAME **LIKE** 'V%'

**select**\***from** FA\_INSURANCE **where** MANDAL\_NAME **NOT** **LIKE** '%A'

---BETWEEN OPERATION

**select**\***from** FA\_INSURANCE **where** AGE **BETWEEN** 45 **AND** 57

**select**\***from** FA\_INSURANCE **where** PREAUTH\_DATE **not** **like** '%.'

----DISTINCT OPERATION--

**select** **DISTINCT** DISTRICT\_NAME **from** FA\_INSURANCE

-----UPPER,LOWER,TRIM AND STRING OPERATIONS

**select** **UPPER**(SupplierName) **AS** SUP\_NAME,**LOWER**(SupplierAddress)**AS** SUP\_ADDRESS,LEN(SupplierContactDetails) **AS** LEN

**from** FA\_SALES\_2

**select** **rtrim**(SupplierName) **AS** RTRIMO **from** FA\_SALES\_2 E---TRIMS THE EXTRA SPACES IN RIGHT SIDE

**select** **ltrim**(SUPPLIERNAME) **from** FA\_SALES\_2 E

**select** **replace**('arunagiri','giri','@') **from** FA\_SALES\_2 E

**select** **SUBSTRING**('Arunagiri',1,5) **from** FA\_SALES\_2 E

**select** **SUBSTRING**('arunagiri@307gmail.com',charindex('@','arunagiri@307gmail.com')+1,len('arunagiri@307gmail.com')) **from** FA\_SALES\_2 E

**select** **CONCAT**('arun','a','giri') FA\_SALES\_2 E--CONCATES TWO WORDS

------CASE OPERATION

**select** **case** **when** City <='Anchorage' **then** 'Truck'

**when** City ='Saint Cloud' **then** 'Air'

**else** 'others'

**end** **as** dname **from** FA\_SALES\_2

**SUM** --- ADDITION OF INTERGER NUMBER

**AVG** ---SUM DIVIEDE NUMBER OF ELEMENTS

**MIN** ---LOWEST VALUE OF THE DATA

**MAX** ---HIGHEST VALUES OF THE DATA

**COUNT** ---NUMBER OF ELEMENTS

---SQL query with all clause .

**select** **sum**(CLAIM\_AMOUNT) **as** sum\_claim **from** FA\_INSURANCE;

**select** **avg**(CLAIM\_AMOUNT) **from** FA\_INSURANCE;

**select** **min**(CLAIM\_AMOUNT) **as** **min**,**max**(CLAIM\_AMOUNT) **as** **max** **from** FA\_INSURANCE;

**select** **count**(\*) **from** FA\_INSURANCE;

**select** **count**(3) **from** FA\_INSURANCE;

**select** **count**(1)CATEGORY\_CODE **from** FA\_INSURANCE

**group** **by** CATEGORY\_CODE

**HAVING** **COUNT**(1)>1;

----all clause function

**SELECT** **COUNT**(1),CLAIM\_AMOUNT

**FROM** FA\_INSURANCE

**WHERE** HOSP\_NAME **IS** **NOT** **NULL**

**GROUP** **BY** CLAIM\_AMOUNT

**HAVING** **COUNT**(1)>2

**ORDER** **BY** CLAIM\_AMOUNT **ASC**;

----Rank functions-------

---scenario to check which hospital is having highest claim amount using rank

**SELECT** **RANK** () **OVER** (**PARTITION** **BY** HOSP\_NAME **ORDER** **BY** CLAIM\_AMOUNT **DESC**) **AS** DRNK,HOSP\_NAME,CLAIM\_AMOUNT

**FROM** fa\_insurance

---CHECHKING DENSE RANK

**SELECT** \* **FROM** (

**SELECT** **DENSE\_RANK** () **OVER** (**PARTITION** **BY** PID **ORDER** **BY** CLAIM\_AMOUNT **DESC**) **AS** DRNK,PID,CLAIM\_AMOUNT

**FROM** fa\_insurance

**WHERE** PID = 454

)X

**WHERE** drnk = 1;

---ROW NUMBER

**SELECT** **ROW\_NUMBER** () **OVER** (**PARTITION** **BY** HOSP\_NAME **ORDER** **BY** CLAIM\_AMOUNT **DESC**) **AS** ROWNUMBER,HOSP\_NAME,CLAIM\_AMOUNT

**FROM** fa\_insurance

**DROP** **TABLE** Incurance\_Claim\_State\_Healths

**TRUNCATE** **TABLE** Incurance\_Claim\_State\_Health

**DELETE** CarSalesShipment\_FA **WHERE** SUPPLIERID = **NULL**