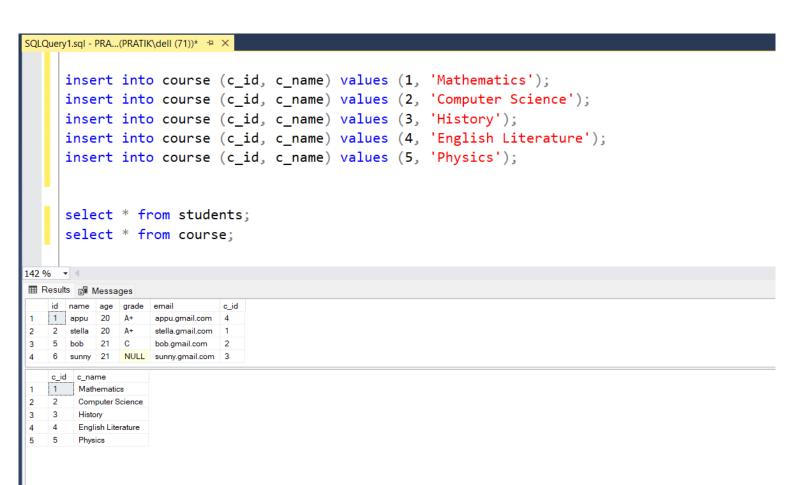
#### **Assignment No: 5**

Name: Pratik Wani

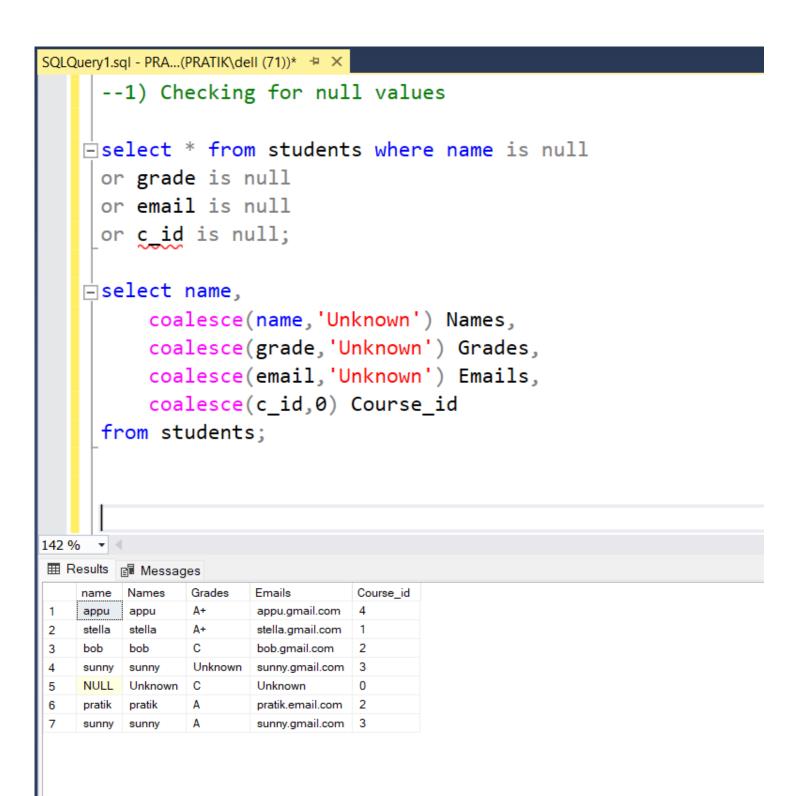
- SQL Queries
  - Here I Used the database named as 'Practice' and created table named as 'Students' and 'Courses' to perform exercises.

```
SQLQuery1.sql - PRA...(PRATIK\dell (71))* □ ×
   □use practice;
   \dot{\sqsubseteq} --Assignment no 4
     --create table and insert dummy data
   id int primary key,
     name varchar(40),
     age int,
     grade varchar(5),
     c_id int references course(c_id)
     );
   c_id int primary key,
     c_name varchar(50)
     );
     insert into students(id,name,age,grade) values(2,'stella',20,'A+',1);
     insert into students(id,name,age,grade) values(1,'appu',20,'A+',4);
     insert into students(id, name, age, grade) values(5, 'bob', 21, 'C', 2);
     insert into students(id,name,age,grade) values(6,'sunny',21,null,3);
     insert into students(id,name,age,grade) values(7,null,21,'C',3);
```

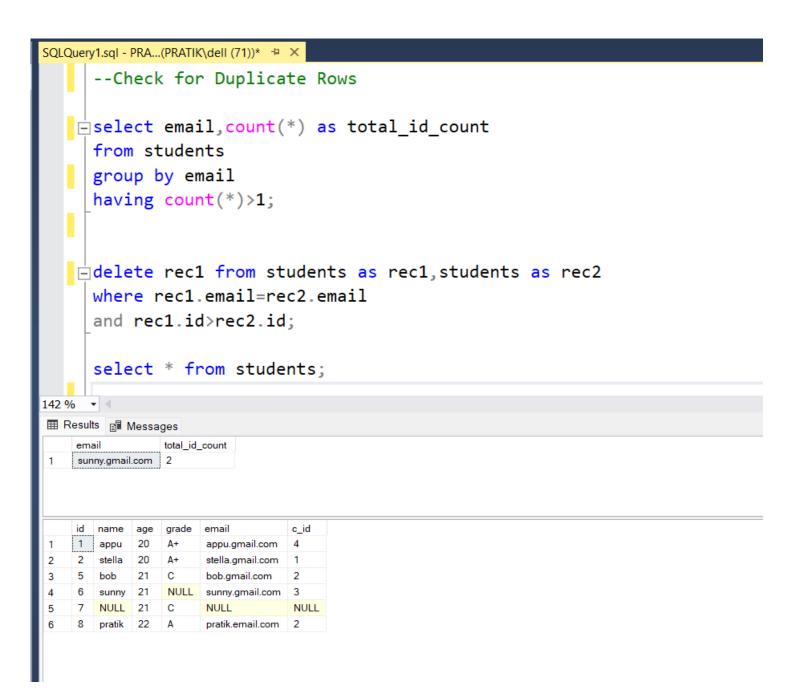


## Data Cleansing and Transformation:

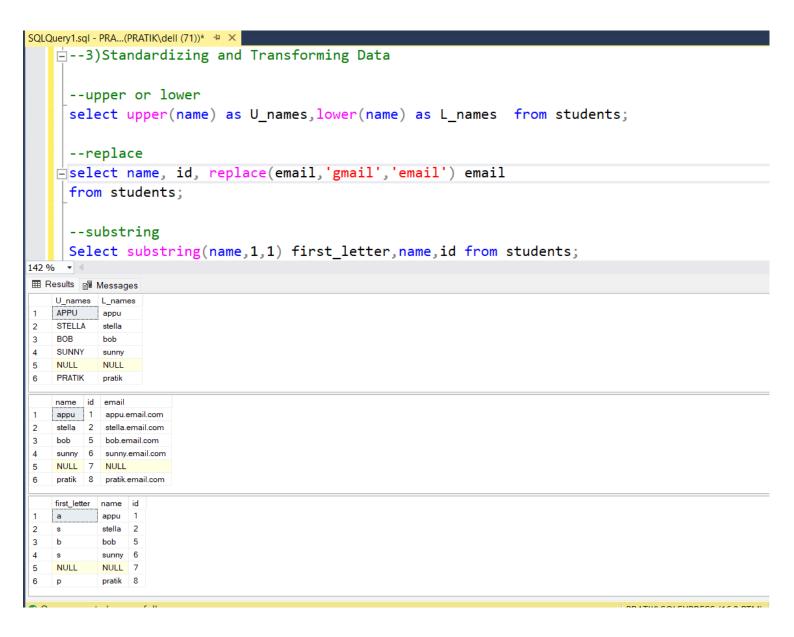
Check for Missing Values:



## O Check for Duplicate Rows:

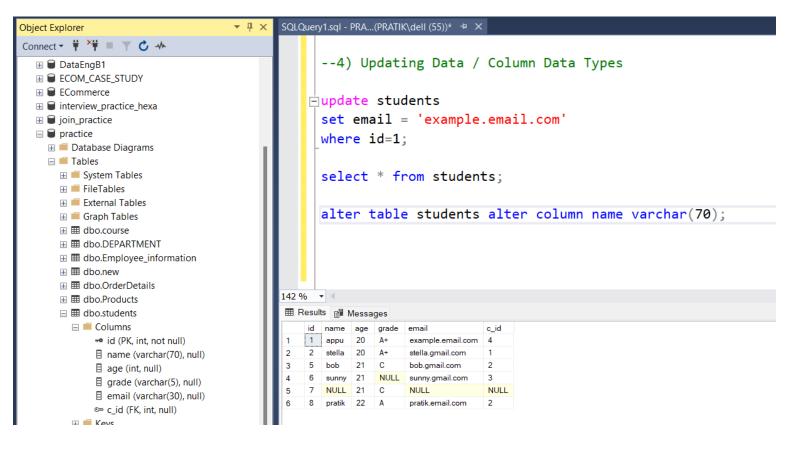


- Standardizing and Transforming Data:
  - Replace
  - Upper or Lower
  - Substring
  - Trim
  - Date Format
  - Use Case



```
SQLQuery1.sql - PRA...(PRATIK\dell (71))* 📮 🗶
      --trim
      Select TRIM(email) AS trimmed_email from students;
      --Use case
    ⊨select *,
           case
      when c_id<=2 then 'High'
      when 2<c_id and c_id<5 then 'Midium'
      when c_id>=5 then 'Low'
      end as 'Demand'
      from students;
142 % ▼ ◀
trimmed_email
   appu.gmail.com
2
    stella.gmail.com
3
   bob.gmail.com
    sunny.gmail.com
5
   NULL
    pratik.email.com
6
    id name age grade email
                               c_id Demand
    1 appu 20 A+
                     appu.gmail.com 4
                                     Midium
    2 stella 20
                     stella.gmail.com 1
                                     High
2
               Δ+
3
       bob
            21
               С
                     bob.gmail.com
                                2
                                     High
               NULL sunny.gmail.com 3
       sunny 21
                                     Midium
               С
                   NULL
                            NULL NULL
5
       NULL 21
6
    8 pratik 22 A
                                     High
                    pratik.email.com 2
```

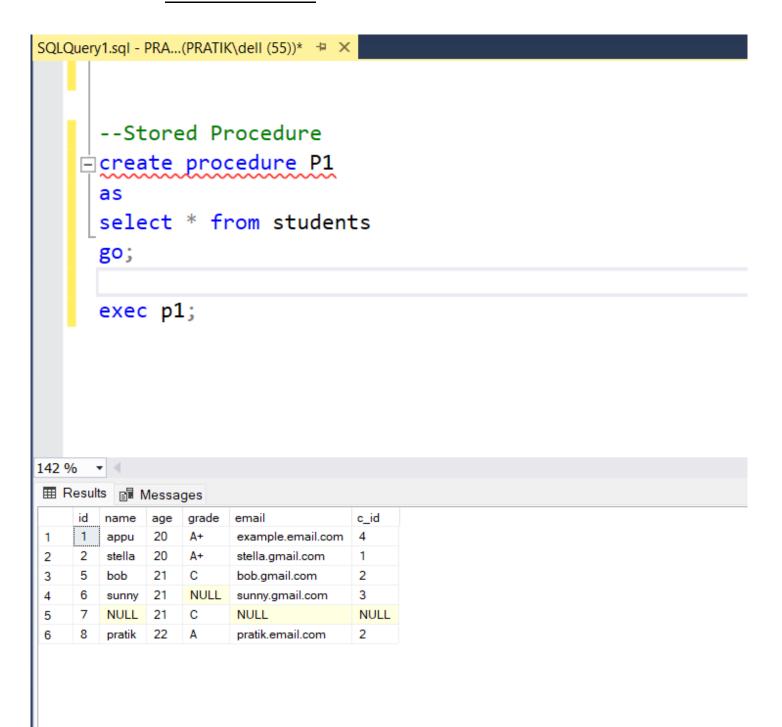
## Updating Data / Column Data Types:



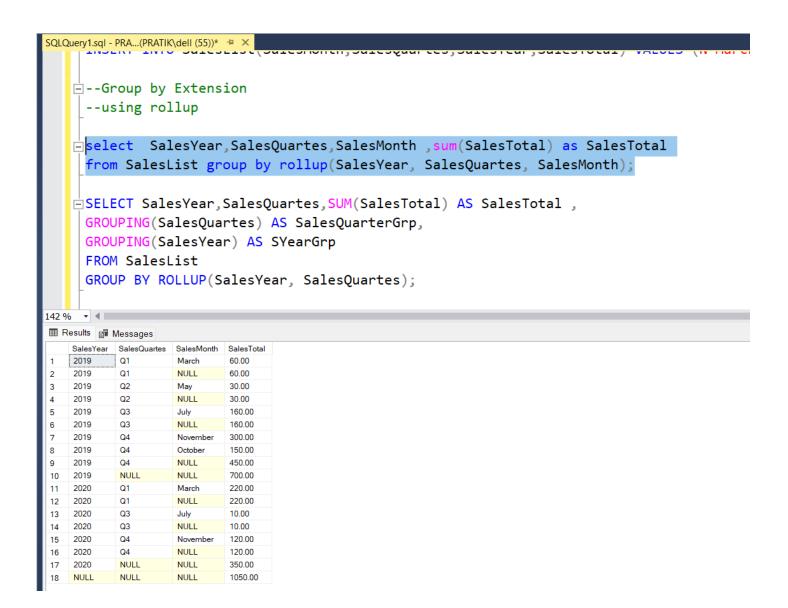
# System Function:

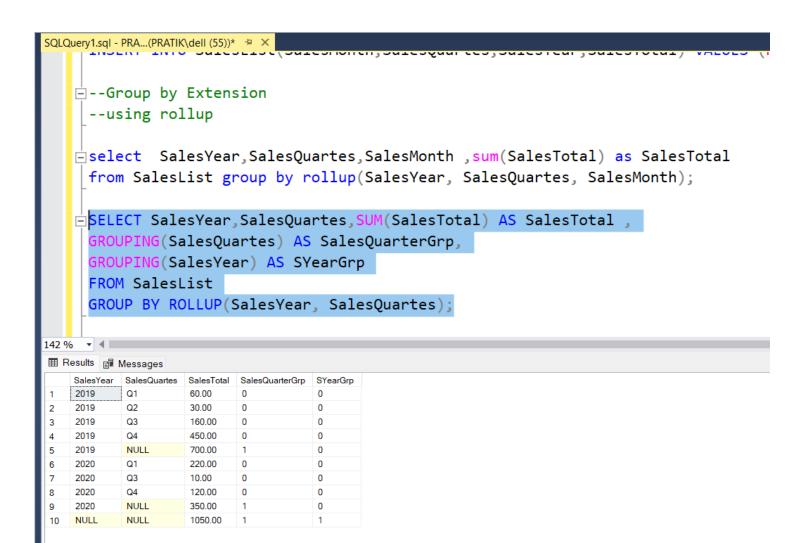
```
SQLQuery1.sql - PRA...(PRATIK\dell (55))* + ×
     -- SYSTEM functions
     select HOST_ID() as id;
     select host_name() as hostname;
142 % ▼ ◀
16992
   hostname
   PRATIK
```

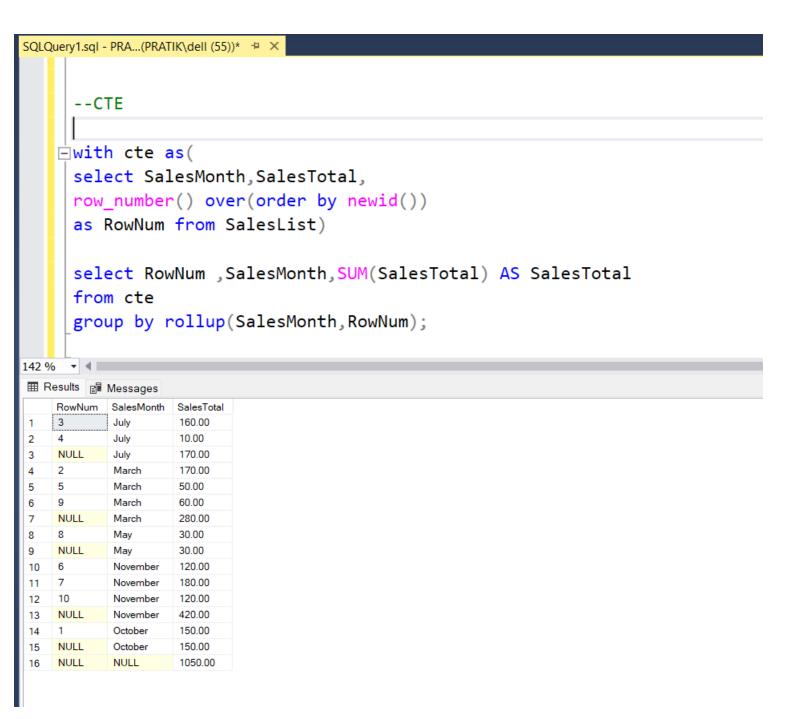
## ■ <u>Stored Procedure</u>:



Group by Extension(Rollup) and Grouping:







## Rank Function:

