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SECTION : 2B

ROLL NO : 45(191500410)

DBMS LAB EXPERIMENT : 2

1.

1. Create the following tables and specify constraints at the time of creation.

Department

Column Name	Data Type	Size	Constraint
Deptno	number	3	primary key
Dname	varchar2	20	Unique
Location	varchar2	20	not null, department are located in Delhi, Pune, Agra

Employee

Column Name	Data Type	Size	Constraint
Empno	varchar2	5	primary key, should start with 'E'
Ename	varchar2	20	Unique
Designation	varchar2	20	not null
Salary	number	10	default 25000, must lie between 15000 and 50000
DOB	date		not null
Dno	number	3	foreign key (references department)

Candidate

Column Name	Data type	Size	Constraints
Candidate_ID	Number	6	Primary key of the table
Candidate_Name	Varchar2	20	Not Null
Candidate_Email	Varchar2	30	Unique, Must have '@' followed by '.' in between the email
Candidate_Dept	Number	2	Default 'HR'
Manager_ID	Varchar2	30	It can take only those values which are present in Candidate_ID column

ANS.

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```
1  create table Department(Deptno number(3) primary key,Dname varchar2(20) Unique,
2  Location varchar2(20) not null check(location in ('Agra','Delhi','Pune')));
3
4
```

Table created.

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```
1  create table Employee(Empno varchar2(5) primary key check(Empno like 'E%'),Ename varchar2(20) Unique,
2  Designation varchar2(20) not null,Salary number(10) check(salary between 15000 and 50000),
3  DOB date not null,Dno number(3)  references Department)
```

Table created.

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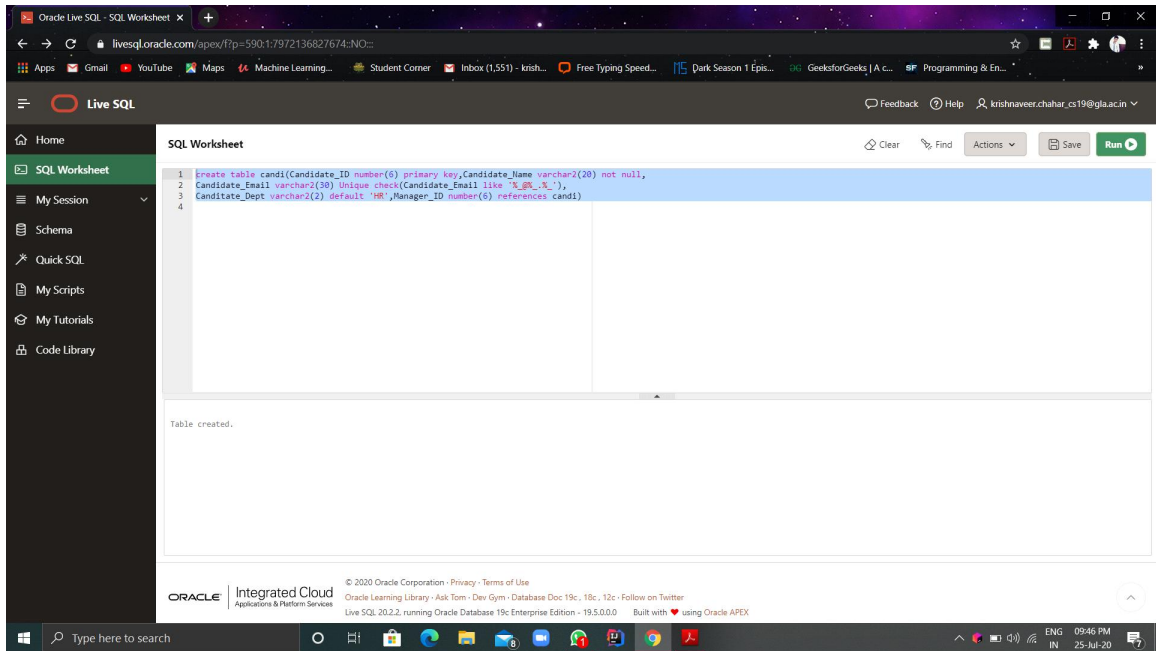
2. Create the schemas as specified above without specifying any constraints.

College (**cName**: varchar2(10), **state**: varchar2(10), **enrollment**: int) **Student** (**sID**: int, **sName**: varchar2(10), **GPA**: number(2,1),**sizeHS**:int) **Apply** (**sID**: int, **cName**: varchar2(10), **major**: varchar2(20))

(i) Add **cName** as **Primary key** in **College**
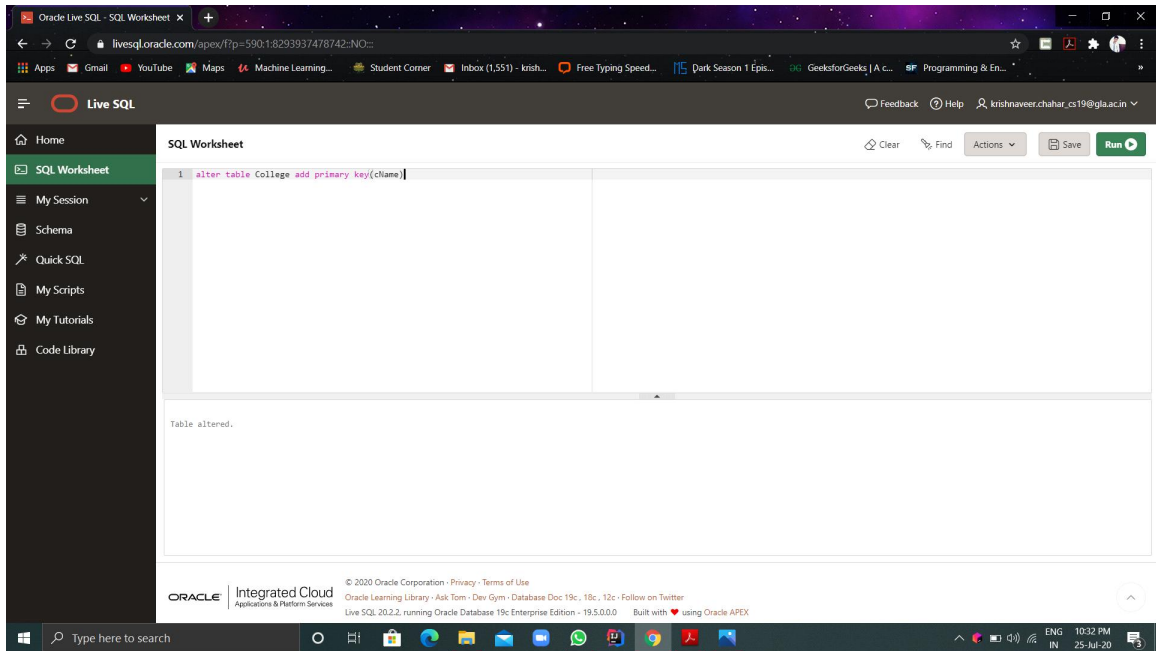
(ii).Add **sID** as **Primarykey** in **Student**.
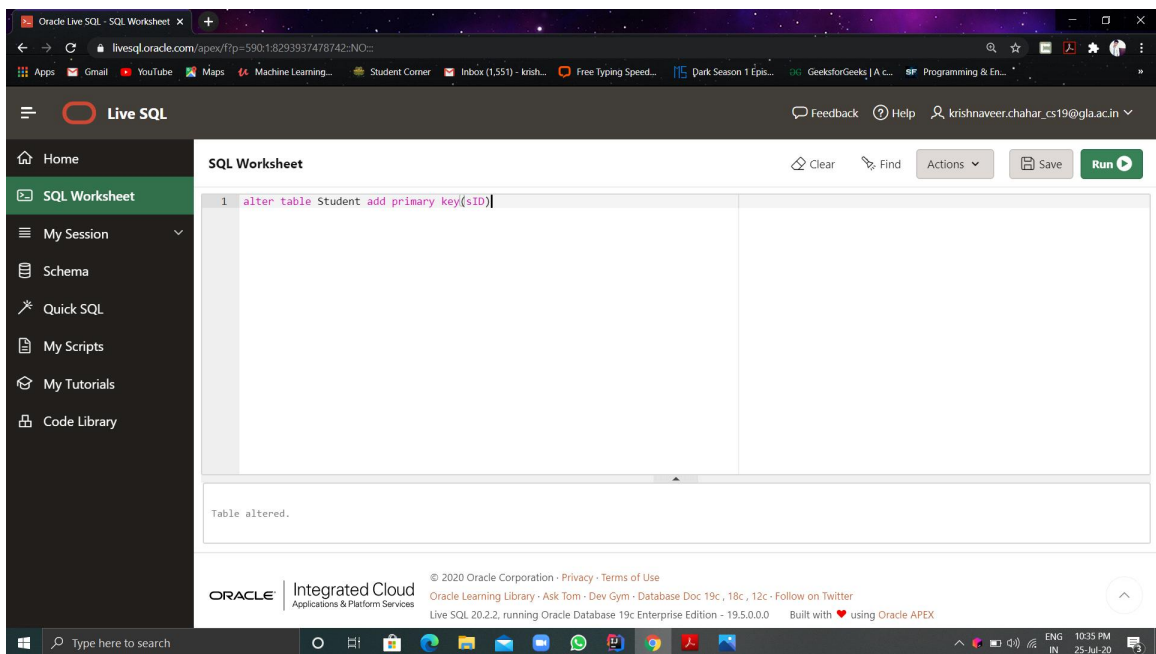
(iii). Add **sID**, **cName**, **major** as **Primarykey** in **Apply**.
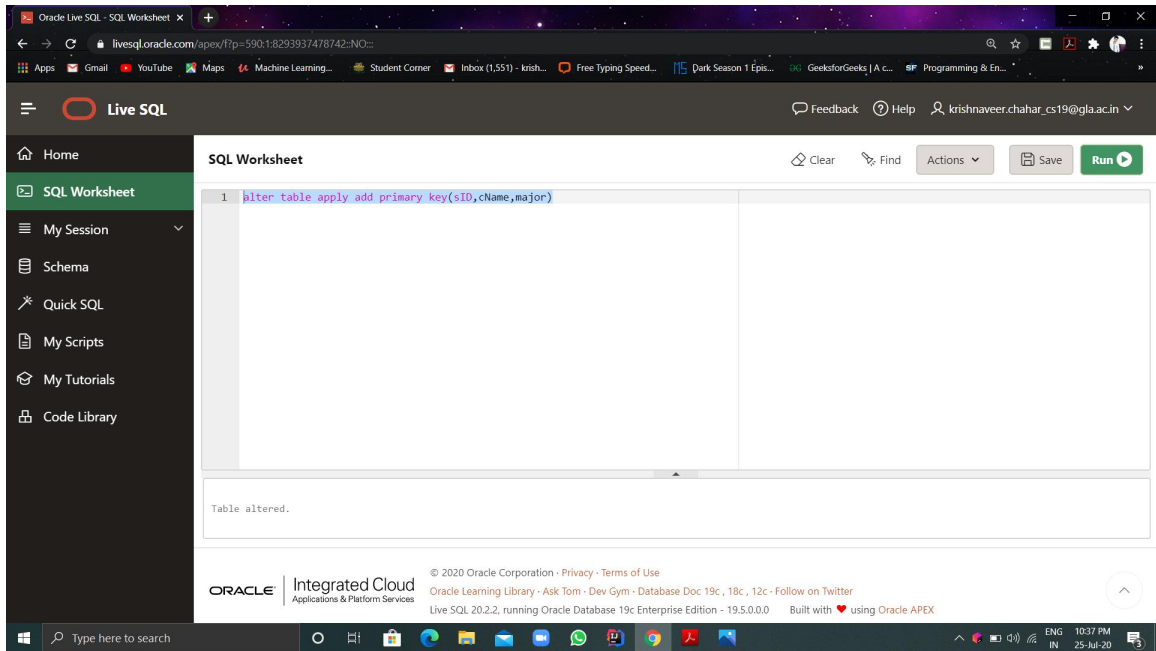
(iv). Make **sID** in **Applyforeignkey** referring table **student** and **cName** referring table **college**.
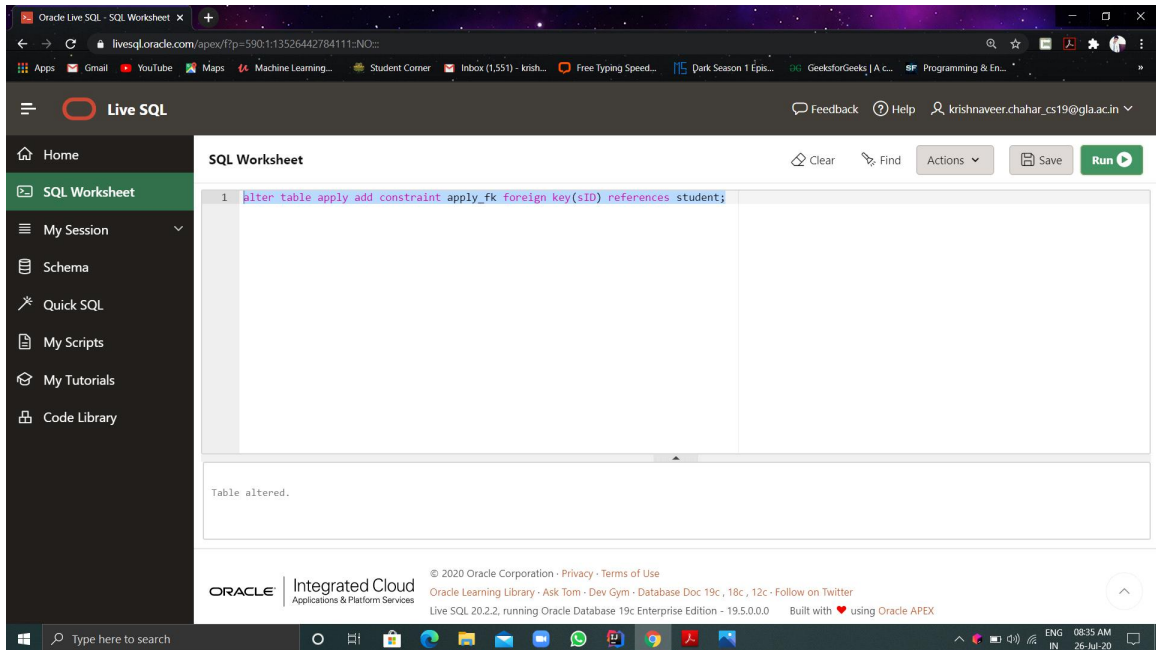
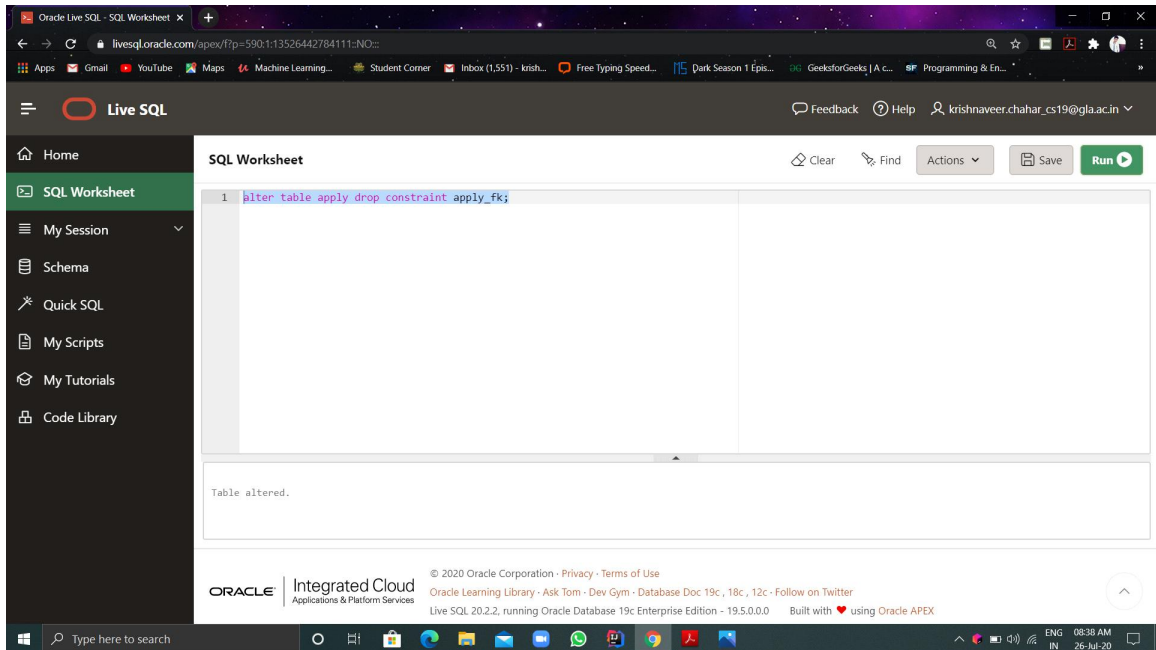(v). Increase data type size of **major** from 20 to **25**.
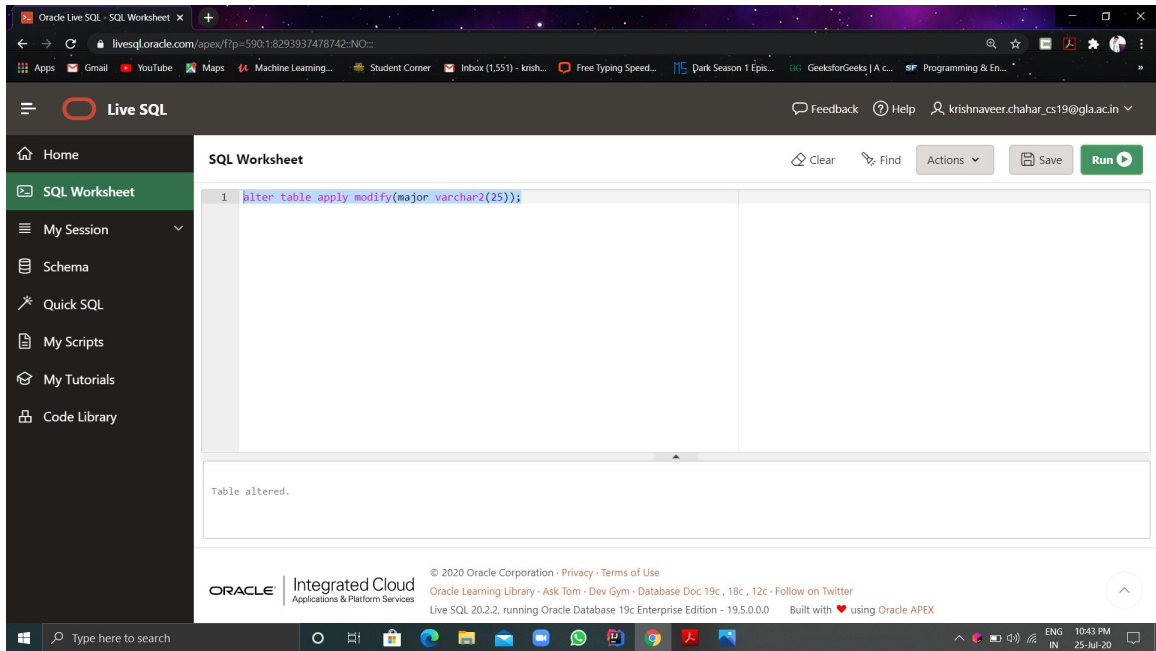
(vi) Add a new column **decision** in the **Apply** table keeping a constraint of **not null** for this column with data type **varchar2(3)**.
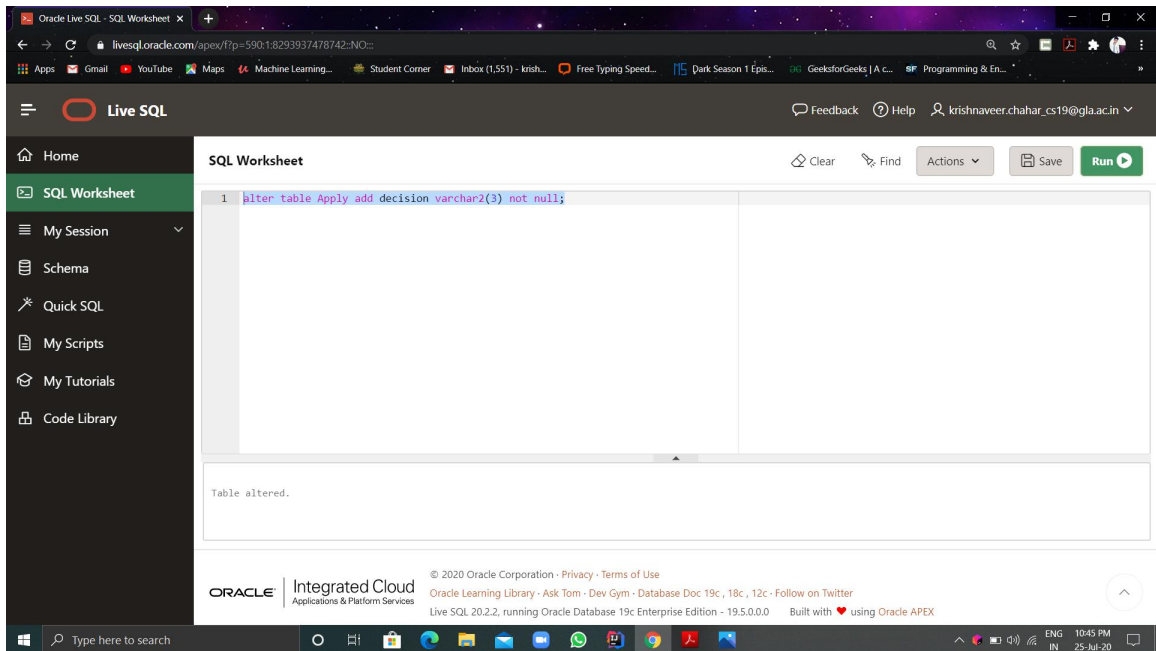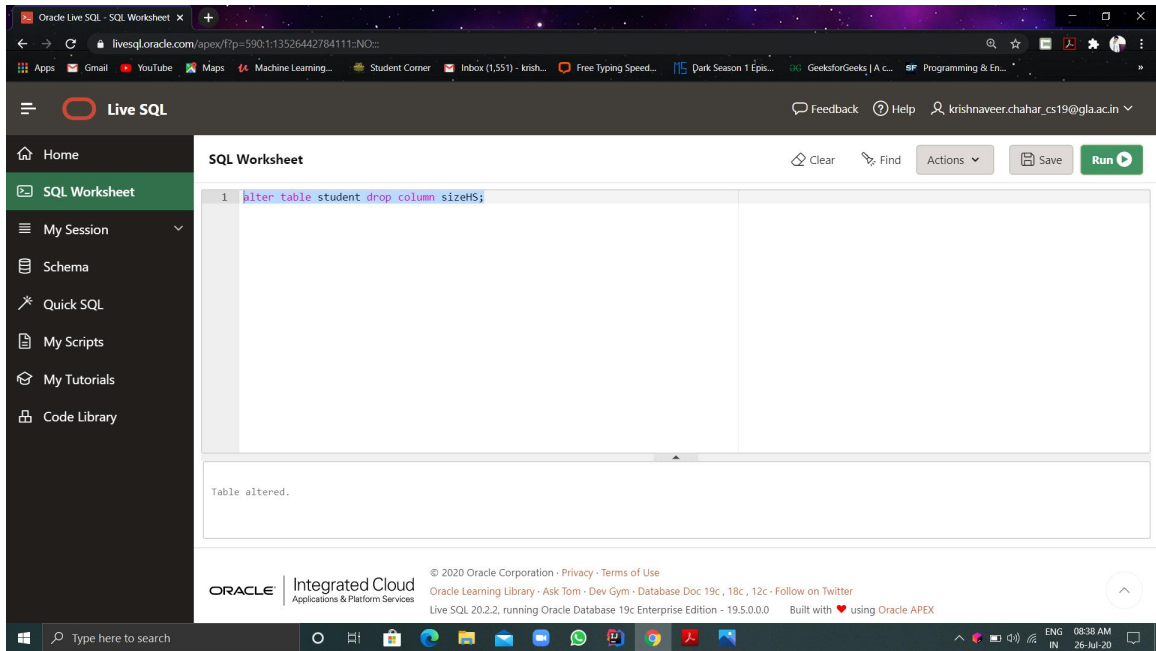

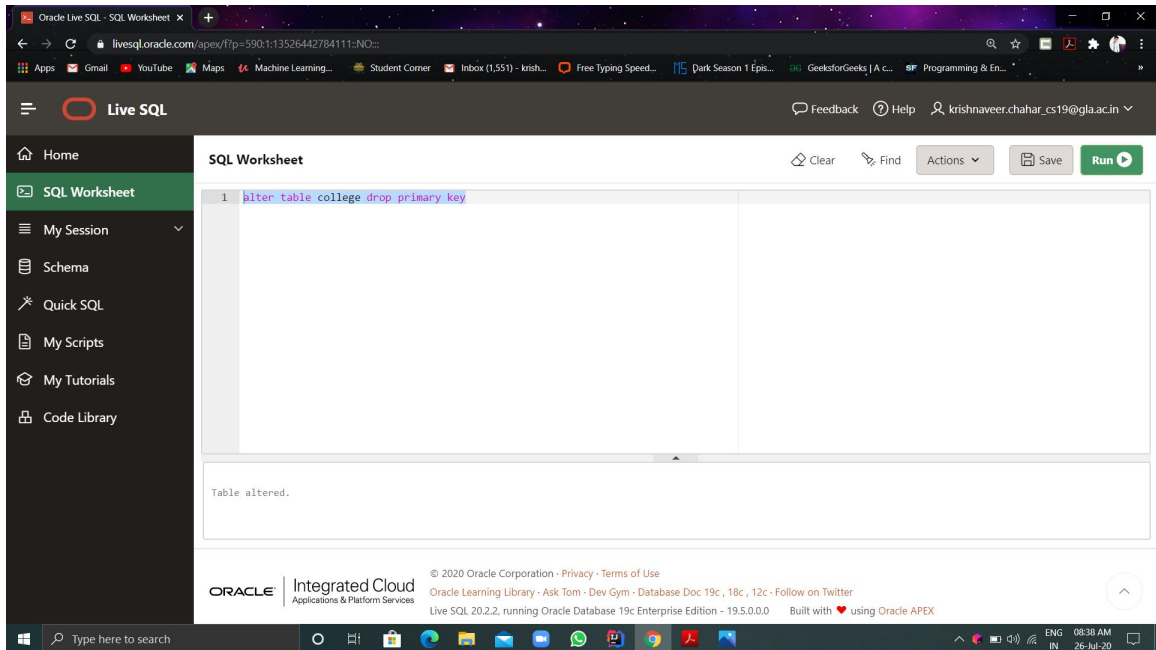**(vii)** Change data type of **decision** in **Apply** to **char(1).**
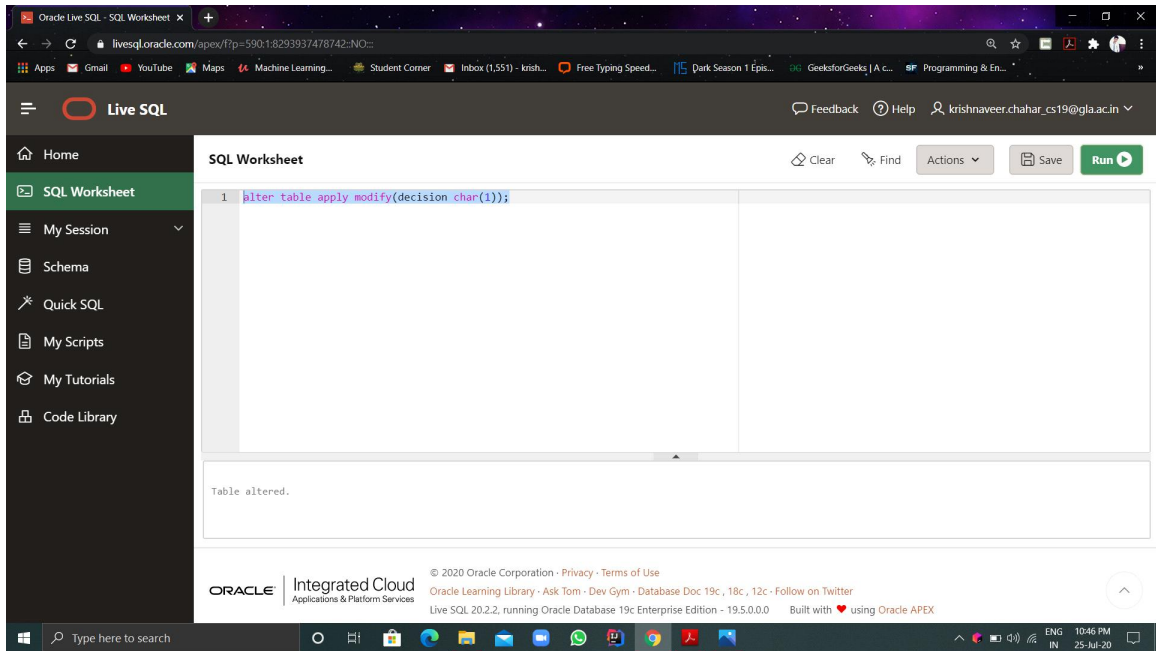
(viii) Drop foreign key on column name **cName** from **Apply** table.
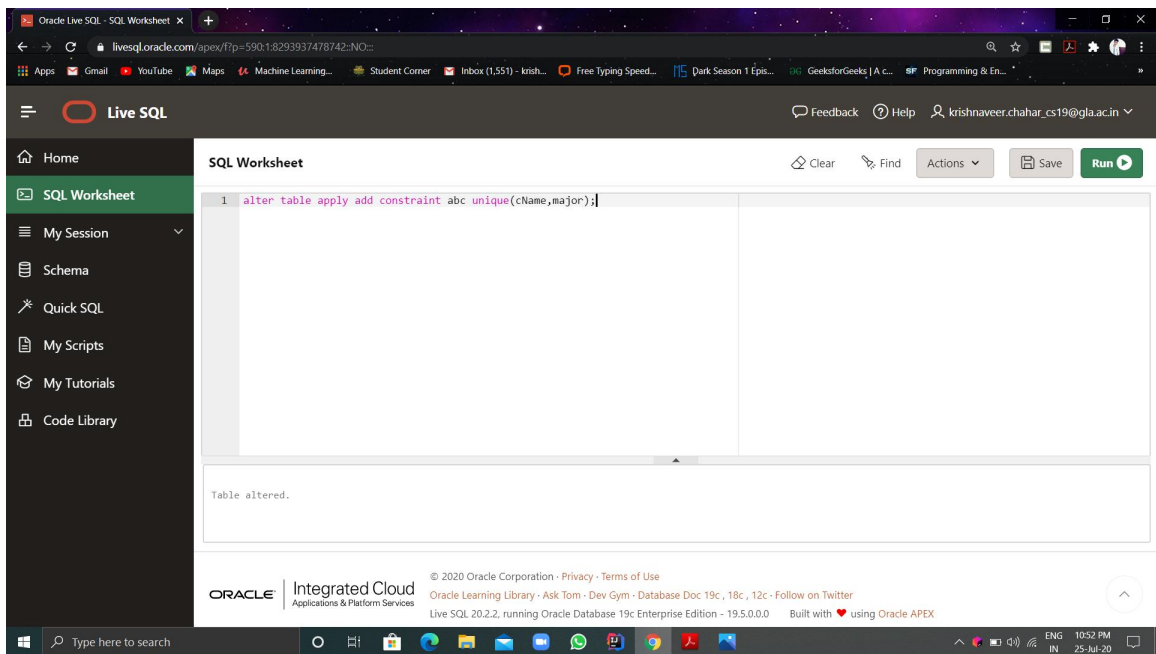

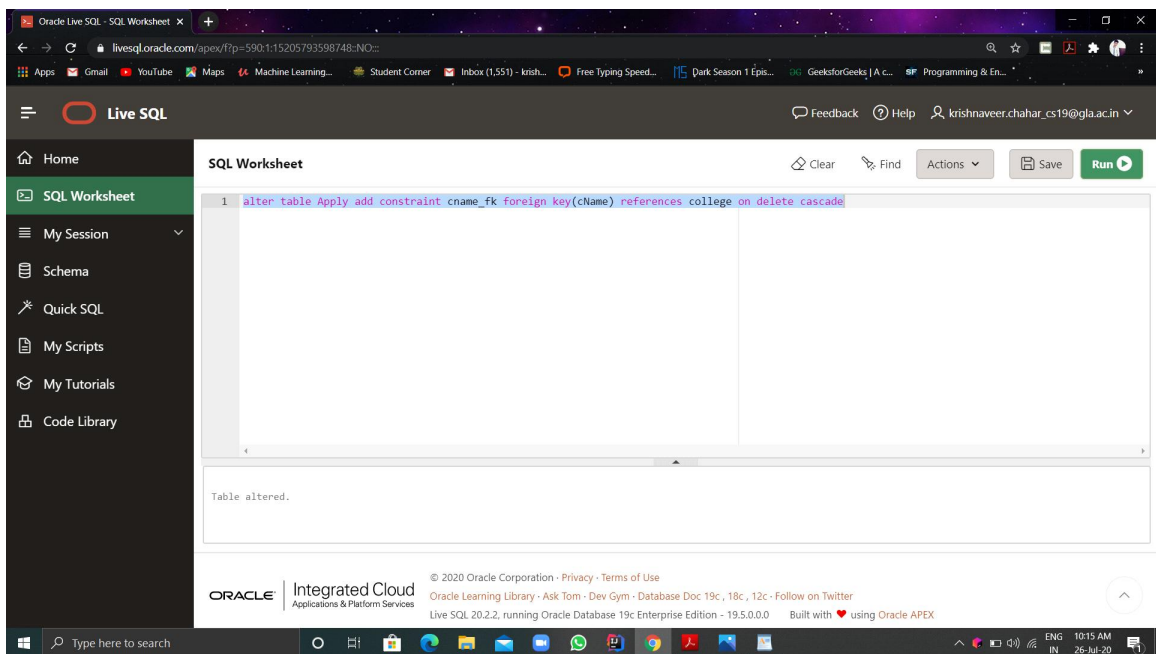**(ix)** Remove column **sizeHS** from **Student** table.
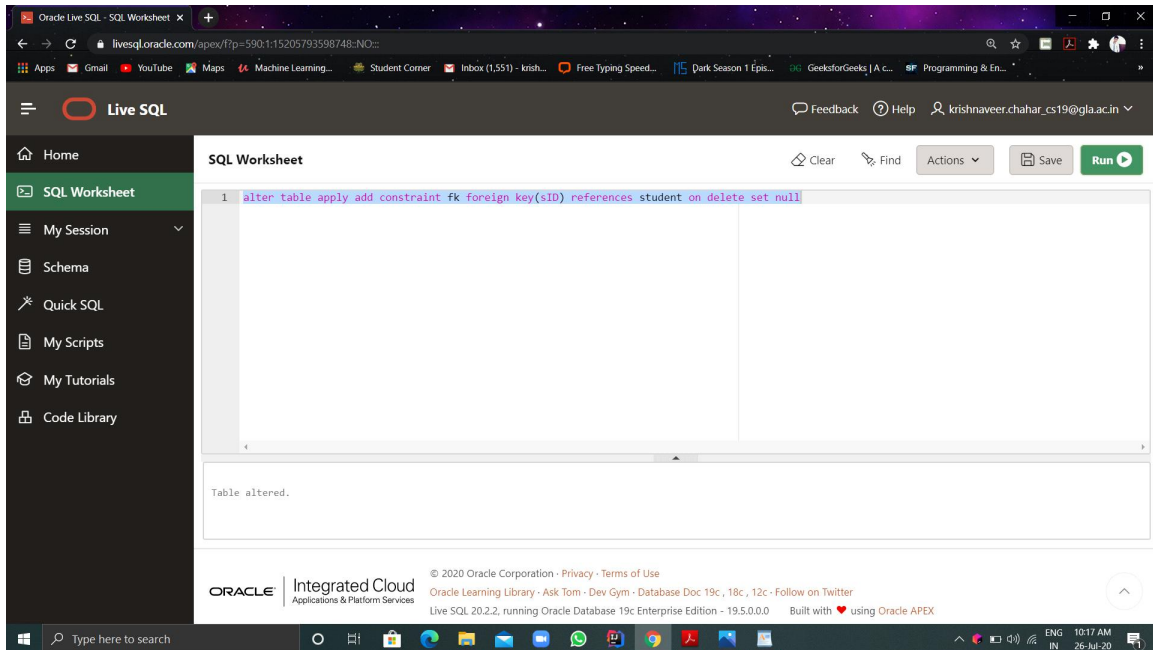
(x) Drop **primary key** from College

(xi) Make **cName, major** unique pairwise such as Stanford CS, Stanford EE.

(xii) Add **cName** as **Foreign Key** in **Apply** table referring table **College** usingon delete cascade.

(xiii) Modify foreign key on **sID** in **Apply** table to **foreign key on delete set null.**

(xiv) Rename column **enrollment** to **enroll** in College Table.