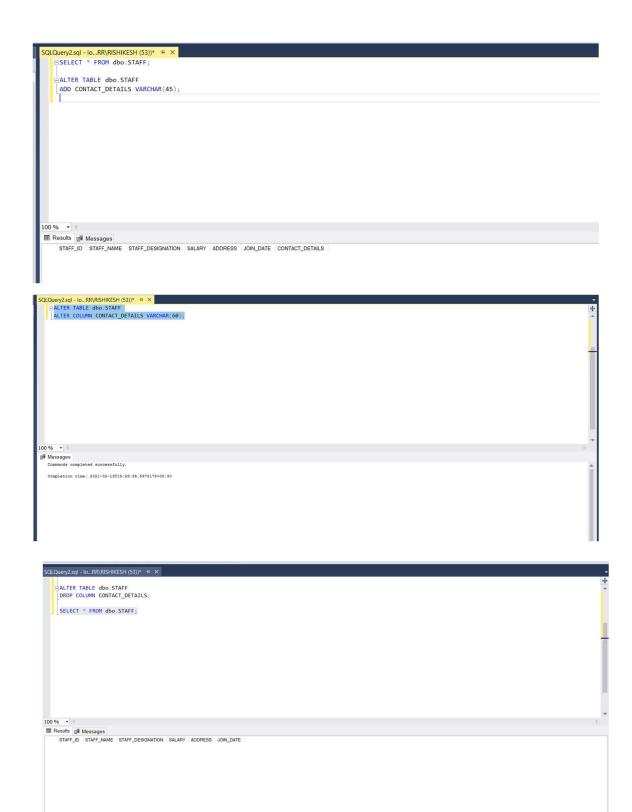
## <u>Lab Assignment -3</u>

Name: Mathangi Sravan

Roll No.: 19bcs068

## Questions:

1. Add, Modify and Delete Column using Alter Command.



2. Insert 20 Employees Data into all the tables. Use all the 3 methods that I have showcased.

```
Query5.sq!-lo...RR\RISHIKESH (60))* 9 X SQLQuery6.sql-lo...RR\RISHIKESH (65))*
@INSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)
| QALUES(1101, 'ASHMIT', 'ACCQUINTANT', 57000, 'KOPPAL', NULL);
   INSERT INTO dbo.STAFF
VALUES(1102, 'RAGHAVENDRA', 'FEE_SECTION', 57000, 'HYDERABAD', '2008-02-14');
  EINSERT INTO dbo.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)

(SELECT STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE FROM Hospital.dbo.STAFF WHERE STAFF_ID = 1100);
  ☐ INSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)

VALUES(1103, 'AKASH', 'TECHNICAL_DEPARTMENT', 87000, 'BIDAR', '2021-01-29');
  ⊟INSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)

VALUES(1104, 'NARSAMMA', 'CLEANING', 5000, 'KALVAL', '2021-02-15');
  EINSERT INTO DBO.STAFF
VALUES(1105, 'KAMLESH', 'LIBRARIAN', 45000, 'HUBLI', NULL);
  INSERT INTO DBO.STAFF
VALUES(1106, 'AISHWARYA', 'ELECTRONICS_JL', 40000, 'GULBARGA', '2020-11-16');
   | |
| INSERT INTO DBO.STAFF
| VALUES(1107, 'VAISHNAVI', 'CSE_HR', 170000, 'BALLARI', '2012-08-01');
   UNSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)

VALUES(1108, 'HASWANTH', 'TRANSPORT', NULL, NULL, NULL);
    INSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)
VALUES(1109, 'SOMANNA', 'WEBDEVELOPMENT_DEPARTMENT', 57000, 'KOPPAL', NULL);
  ©INSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE) VALUES(1110, 'BHARATH', 'STUDENT', 57000, 'KOPPAL', NULL);
SQLQuery5.sql - Io...RR\RISHIKESH (60))* +2 × SQLQuery6.sql - Io...RR\RISHIKESH (65))*
     ☐INSERT INTO DBO.STAFF VALUES(1111, 'MANI', 'STUDENT', NULL, 'PALEM', NULL);
     FINSERT INTO DBO.STAFF
       VALUES(1112, 'KULKARNI', 'SUB_REGISTER', 120000, 'KAMMAM', '2016-07-22');
     EINSERT INTO DBO.STAFF
VALUES(1113, 'MUKESH', 'TECHNICAL_DEPARTMENT', NULL, NULL, '2015-02-24');
     INSERT INTO DBO.STAFF
      VALUES(1114, 'HEMANTH', 'ASSISTANT LAB', 71000, NULL, '2019-12-31');
     UNISERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)

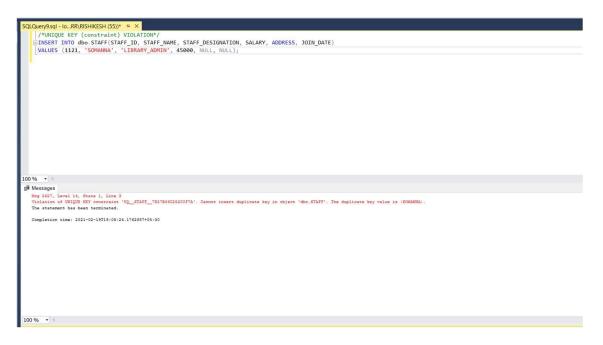
VALUES(1115, 'AJAY', 'MECHANICAL_DEPARTMENT', 9000, NULL, '2017-10-09');
     INSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)

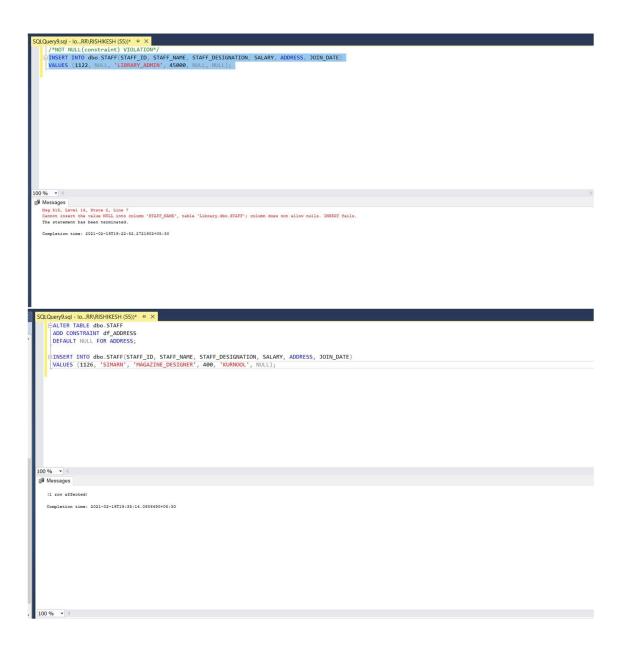
VALUES(1116, 'KOUSHIK', 'CS_DEPARTMENT', 22000, 'HIMACHAL', NULL);
     INSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)

VALUES(1117, 'BHANU', 'REGISTER', 211000, 'LUKNOW', '2011-12-27');
     □INSERT INTO DBO.STAFF VALUES(1118, 'SRIKAR', 'PUNE', 9800, 'PUNE', NULL);
     INSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)

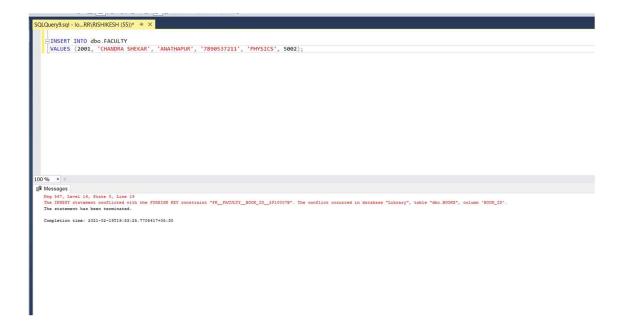
VALUES(1119, 'SRAVAN', 'DIRECTOR', 210000, 'CANADA', '2010-01-01');
      INSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)
VALUES(1120, 'KALA', 'LAB_JL', 89000, 'WARANGAL', '2011-04-17');
    SQLQuery5.sql - Io...RR\RISHIKESH (60))* → × SQLQuery6.sql - Io...RR\RISHIKESH (65))*
        SELECT * FROM DBO.STAFF
        Results Messages
                                                                      SALARY ADDRESS
123000 AGRA
57000 KOPPAL
57000 HOPERABAD
87000 BIDAR
45000 HUBLI
40000 GULBARGA
1700000 BALLARI
NULL NULL
57000 KOPPAL
57000 KOPPAL
                                     WEBDEVELOPMENT_DEPARTMENT
                                     STUDENT
                                                                      57000 KOPPAL
NULL PALEM
                                     STUDENT
                                     SUB_REGISTER
                                     TECHNICAL_DEPARTMENT
                                                                       NULL NULL
                                    ASSISTANT_LAB
                                                                                              2019-12-31
                                                                       9000
                                                                              NULL
                                                                                              2017-10-09
                                    CS_DEPARTMENT
                                                                                             NULL
2011-12-27
                                     REGISTER
                                                                       211000 LUKNOW
9800 PUNE
                                     PUNE
                                     DIRECTOR
                                    LAB_JL
```

3. Show Violation of Primary Key, Unique, Not Null and default key constraints through insertion.

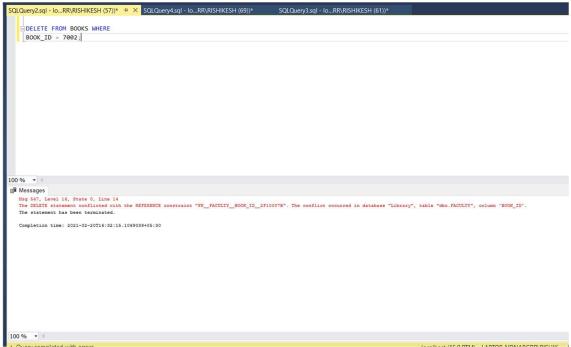




4. Insert tuples into the table and see how foreign key constraint works if you try to insert into dependent table first.



5. Show Violation of Foreign Key Constraint when you try to delete from a base table. If you get an error explain why deletion gives an error.

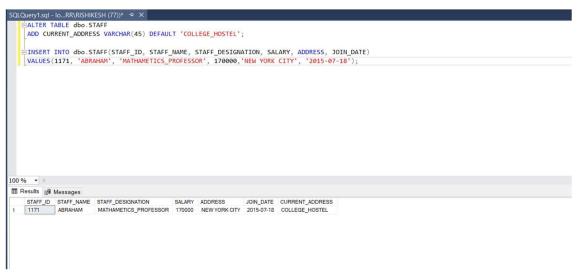


The deletion is giving an error as it violates referential integrity constraint. First, we need to delete the corresponding tuple from the dependent table and then the base table.

6. Try to update a non-existing entity data and check for error.

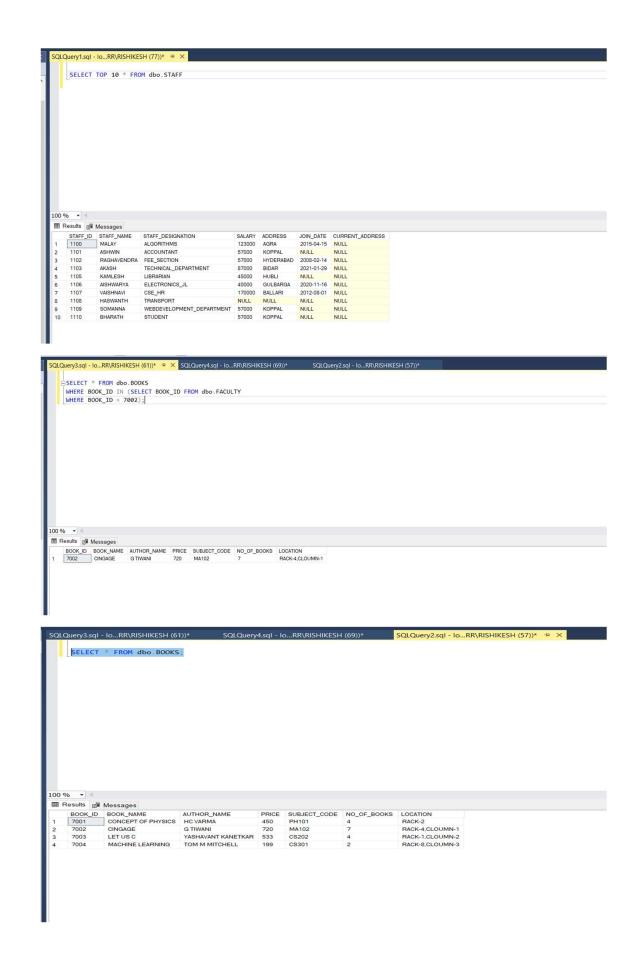


7. Add a column which has default value.



8. 5 Simple Select queries to retrieve data from your database.



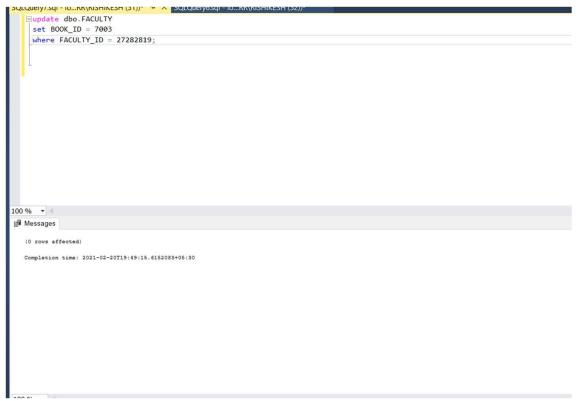


```
SQLQuery2.sql - Io...RR;RISHIKESH (67))*

SQLQuery3.sql - Io...RR;RISHIKESH (61))*

SQLQuery3.sql - Io...RR;RISHIK
```

9. Show how Foreign key constraint effects Updating a dependent table when value is not existing and in Base table where the value is referred and you want to update it.



For the database I have created I didn't got any error with using above constraint.