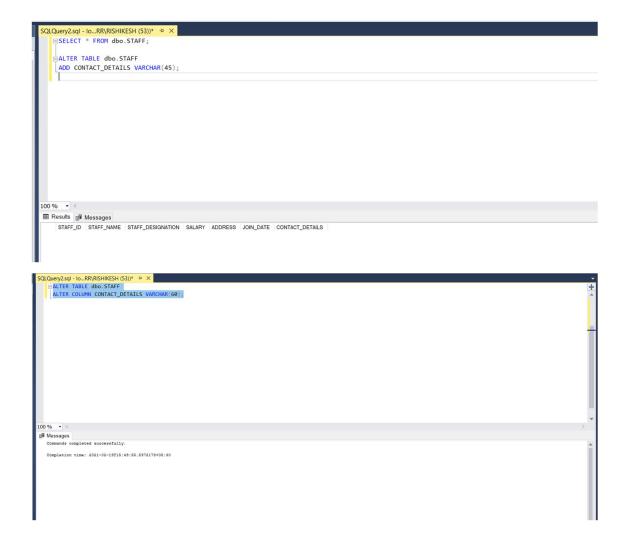
## Lab Assignment -3

Name: Dasari Rishikesh

Roll No.: 19bcs035

## 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.sql-lo...RR\RISHIKESH (60))* * X SQLQuery6.sql-lo...RR\RISHIKESH (65))*

ZINSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)

VALUES(1101, 'ASHWIN', 'ACCOUNTANT', 57000, 'KOPPAL', NULL);
  INSERT INTO dbo.STAFF
    VALUES(1102, 'RAGHAVENDRA', 'FEE SECTION', 57000, 'HYDERABAD', '2008-02-14');
  □INSERT 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);
  DINSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)
VALUES(1103, 'AKASH', 'TECHNICAL_DEPARTMENT', 87000, 'BIDAR', '2021-01-29');
  DINSERT 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);
   | DINSERT INTO DBO.STAFF | VALUES(1107, 'VAISHNAVI', 'CSE_HR', 170000, 'BALLARI', '2012-08-01');
   DEINSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)
|VALUES(1188, 'HASWANTH', 'TRANSPORT', NULL, NULL, NULL);
   EINSERT 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))* + > SQLQuery6.sql - Io...RR\RISHIKESH (65))*
     □INSERT INTO DBO.STAFF

VALUES(1111, 'MANI', 'STUDENT', NULL, 'PALEM', NULL);
     □INSERT INTO DBO.STAFF

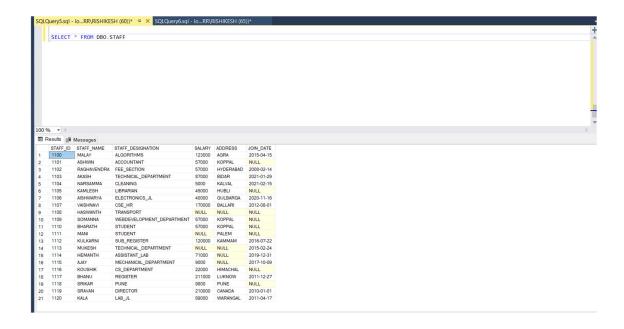
VALUES(1112, 'KULKARNI', 'SUB_REGISTER', 120000, 'KAMMAM', '2016-07-22');
    ☐INSERT INTO DBO.STAFF VALUES(1114, 'HEMANTH', 'ASSISTANT_LAB', 71000, NULL, '2019-12-31');
     INSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)

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

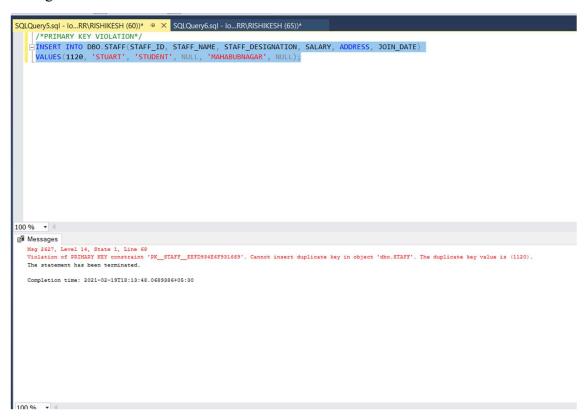
VALUES(1116, 'KOUSHIK', 'CS_DEPARTMENT', 22000, 'HIMACHAL', NULL);
    EINSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)
VALUES(1117, 'BHANU', 'REGISTER', 211000, 'LUKNOW', '2011-12-27');
    □INSERT INTO DBO.STAFF

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');
     | MINSERT INTO DBO.STAFF(STAFF_ID, STAFF_NAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)
| VALUES(1120, 'KALA', 'LAB_JL', 89000, 'WARANGAL', '2011-04-17');
```



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

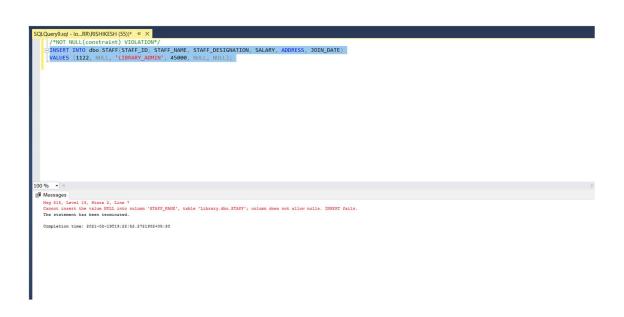


```
SOCOMPSSS | - Constraint) VIOLATION*

| TAUNIQUE KEY (constraint) VIOLATION*
| SINSERT INTO dob. STAFF (STAFF ) ON STAFF NAME, STAFF DESIGNATION, SALARY, ADDRESS, JOIN_DATE)

| VALUES (1121, 'SOMANNA', 'LIBRARY_ADMIN', 45000, NULL, NULL);

| WASSESS | Constraint |
```



```
SOLQuep9sq-1-D.RRNSHWESH (SS)* * X

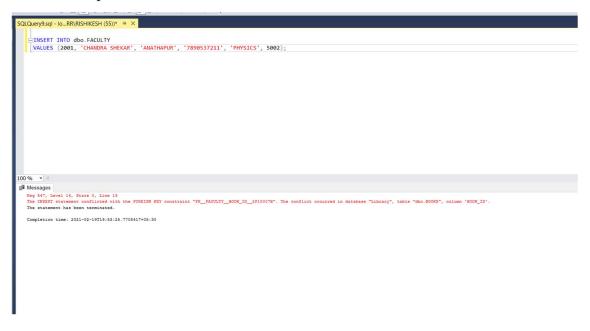
#ALTEK TABLE do. STAFF
ADD CONSTRAINT of ADDRESS
DEFAULT NULL FOR ADDRESS
DEFAULT NULL FOR ADDRESS;
LINSERT INTO dob.STAFF_STAFF_D. STAFF_MAME, STAFF_DESIGNATION, SALARY, ADDRESS, JOIN_DATE)

[VALUES (1126, 'SIMARN', 'MAGAZINE_DESIGNER', 400, 'KUMMOOL', NULL);

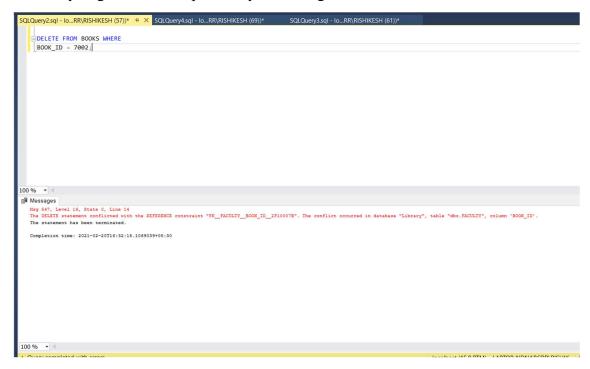
100 % 4

[#M Mossages
[1 z ow affected)
Complesion time: 2021-02-19719:38:14.0804490+ds:30
```

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

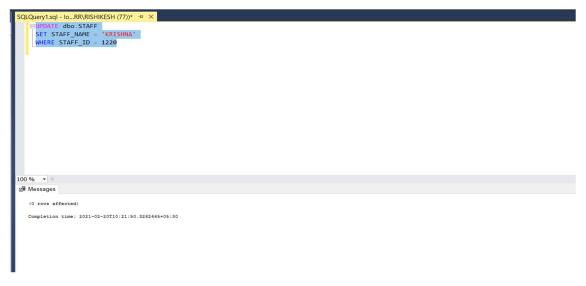


5. Show Violation of Foreign Key Constraint when you try to delete from a base table. If you get an error explain why deletion gives an error.

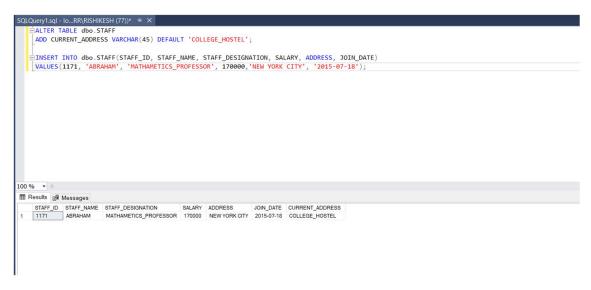


The deletion is giving an error as it violates referential integrity constraint. First, we need to delete the corresponding tuple from the dependent table and then the base table.

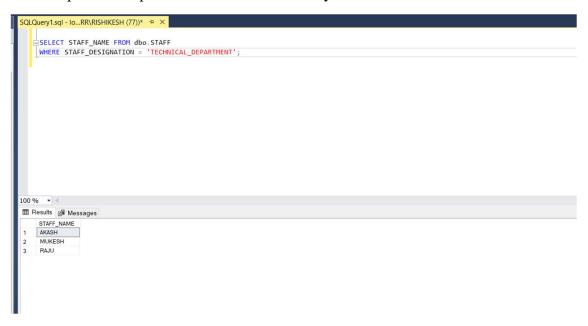
6. Try to update a non-existing entity data and check for error.

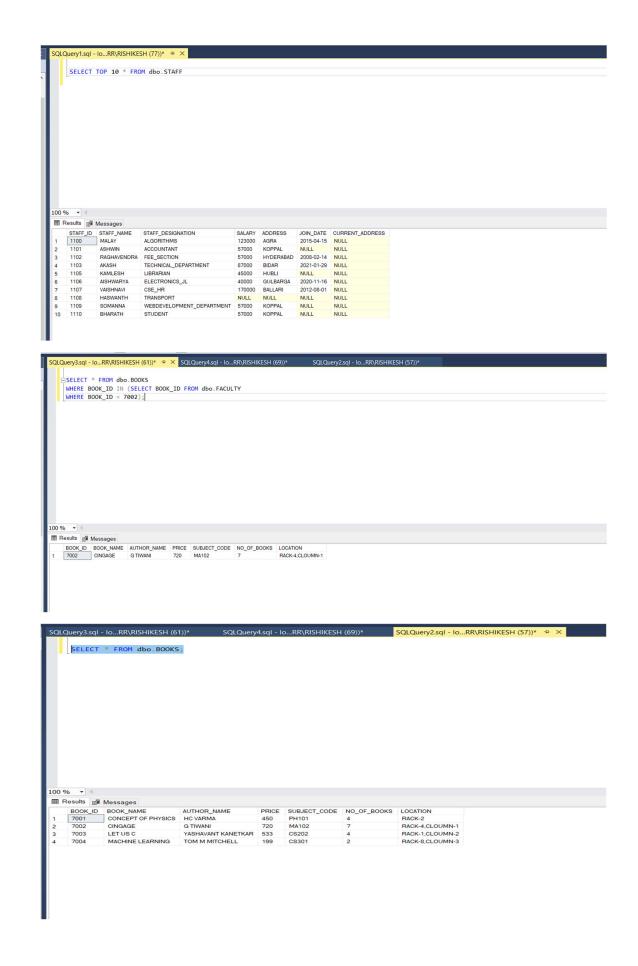


7. Add a column which has default value.



8.5 Simple Select queries to retrieve data from your database.





```
SQLQuery3sql - Io...RRRRISHIKESH (67))*

SQLQuery3sql - Io...RRRRISHIKESH (61))*

Where BOOK_NAME = "MACHINE LEARNING";

Improve BOOK_NAME = "MACHINE LEARNING";

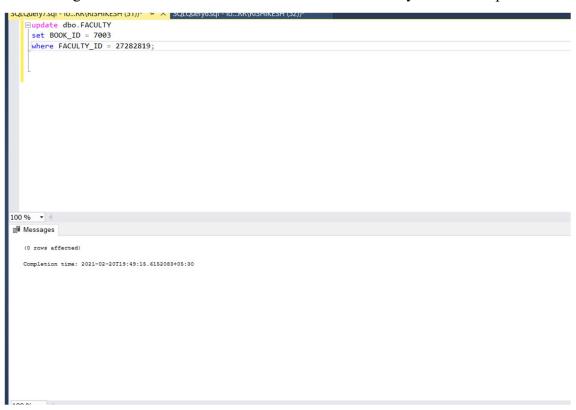
Improve BOOK_NAME = "MACHINE LEARNING";

JAUTHOR_NAME

I TOM M MITCHELL

JACK FELENDER
```

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.