



Schema Changes

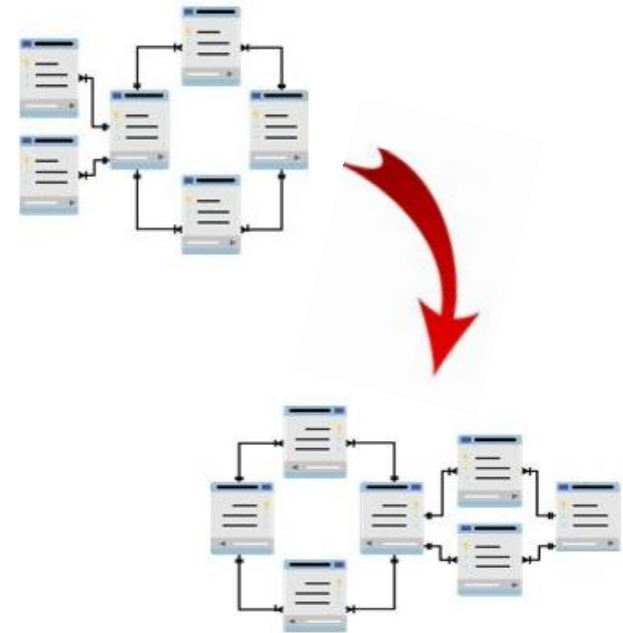
COURSE : 23CAT- Database Management System

UNIT I : Introduction

CLASS : I Semester / I MCA



- ❑ Schema change is a procedure of altering or modifying the existing database objects with the help of some commands
- ❑ We refer to these commands as schema change statements which are defined using an SQL query language
- ❑ These commands are also referred to as schema evolution commands
- ❑ It includes adding or dropping tables, attributes, and constraints





- ❑ Drop command is used to drop named elements of database schema such as tables, domains or constraints on these elements or the entire schema itself
- ❑ It can be implemented in two possible ways i.e. using CASCADE and RESTRICT

DROP SCHEMA EDUCATION CASCADE

- CASCADE along with the DROP command delete the entire schema and its associated elements from the database

DROP SCHEMA EDUCATION RESTRICT

- Dropped if the schema does not have retained a single element in it
- First have to drop each element of the EDUCATION schema individually and at last, you can drop the Education schema



- ❑ Drop table command is used to drop table and also the other elements referencing the table
- ❑ It removes table along with all the records within the table, but to delete records alone, we use DELETE TABLE

DROP TABLE EDUCATION CASCADE

- CASCADE along with the DROP command delete the entire table and its associated elements from the database

DROP TABLE EDUCATION RESTRICT

- Dropped if the table does not have retained a single element in it
- First have to drop each element of the EDUCATION schema individually and at last, you can drop the Education schema



- ❑ It change the logical structure of a relation (table) in the database
- ❑ It includes adding/deleting a new column in the table, modifying the type of attribute (column)

```
ALTER TABLE EDUCATION ADD  
COLUMN course varchar(25)
```

```
ALTER TABLE EDUCATION DROP  
COLUMN degree varchar(25)
```

CASCADE removes all the constraints and views referencing the dropped column
RESTRICT option removes column only if no constraints and views are referencing the dropped column



**ALTER TABLE EDUCATION MODIFY
COLUMN course varchar(25)**

Alter the data type of the existing column by

**ALTER TABLE EDUCATION RENAME
COLUMN degree TO programme**

change the name of the column

