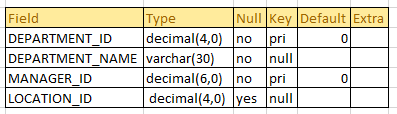
1. Use the following structure to create a Departments table.



CREATE TABLE Departments(

DEPARTMENT\_ID DECIMAL(4,0) DEFAULT 0,

DEPARTMENT\_NAME VARCHAR(30) NULL,

MANAGER\_ID DECIMAL(6,0) DEFAULT 0 ,

LOCATION\_ID DECIMAL(4,0) NULL

constraint prime\_k primary key (DEPARTMENT\_ID,MANAGER\_ID));

1. Write a query to create table with a name Employees with the following instructions.
2. Column names : employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, commission, manager\_id and department\_id.
3. The employee\_id column does not contain any duplicate value or null at the time of insertion.
4. Set primary key using Alter command.
5. Firstname and Lastname must not be null.
6. The foreign key columns combined by department\_id and manager\_id columns contain only those unique combination values, which combinations are exists in the departments table.

a)create table Employees (employee\_id int,

first\_name varchar(200) not null,

last\_name varchar(200) not null,

email varchar(200),

phone\_no int,

hire\_date date,

job\_id int,

salary float,

commission float,

manager\_id decimal(4,0),department\_id decimal(4,0));

b,c) alter table Employees add primary key (employee\_id);

ALTER TABLE Employees add foreign key (department\_id,manager\_id)

references Departments(DEPARTMENT\_ID,MANAGER\_ID)

1. Write a SQL statement to create a table countries with the following instructions.
2. Columns: country\_id, country\_name and region\_id.
3. Country\_id will be the key field and no duplicate data against column country\_id should be allowed at the time of insertion.
4. Set a constraint NULL.
5. Make sure that no countries except Italy, India and China will be entered in the table.

create table countries

(country\_id int NOT NULL primary key,

country\_name varchar(200) NOT NULL check(country\_name in ('italy','India','China')),

region\_id decimal(10,0));

1. Write a SQL statement to create a duplicate copy of countries tables by name dup\_countries.

Select top 0 \* into dup\_countries from countries

1. Write a SQL statement to create a table named jobs including columns job\_id, job\_title, min\_salary and max\_salary, and make sure that, the default value for job\_title is blank and min\_salary is 8000 and max\_salary is NULL will be entered automatically at the time of insertion if no value assigned for the specified columns. The max\_salary also should not exceed 25000.

CREATE TABLE jobs (

JOB\_ID varchar(10) NOT NULL UNIQUE,

JOB\_TITLE varchar(35) NOT NULL DEFAULT ' ',

MIN\_SALARY decimal(6,0) DEFAULT 8000,

MAX\_SALARY decimal(6,0) CHECK (MAX\_SALARY <=25000)

);

1. Write a SQL statement to rename the table dup\_countries to Locations.

EXEC SP\_RENAME 'dup\_countries','Locations';

1. Write a SQL statement to add a column city(Varchar) and state\_province\_number(Varchar) to the table Locations.

alter table Locations

add city varchar(50), state\_province\_number varchar(50);

1. Write a SQL statement to drop the column city from the table locations.

ALTER TABLE Locations

drop column city;

1. Write a SQL statement change the data type of the column state\_province\_number to integer in the table locations.

alter table locations alter column state\_province\_number integer;

1. Write a SQL statement change the data type of the column state\_province\_number to integer in the table locations.

ALTER TABLE locactions

RENAME COLUMN state\_province\_number to state;