Information System Management Lab BCOM 307

Assignment #7

Submitted by:

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Enrollment No: 03914788818 **Semester:** B.Com(H) 5th Semester

Class: B.COM(H)
Section: B.Com 5A

Date of Submission: 25/09/2021

Submitted to:

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Department of Commerce
Academic Year: 2020-21
Semester: Vth

Assignment No.7 Unit No:

Course/Subject Code: BCOM 307 Subject Title: Information System Management Lab
Issue Date: Last Date of Submission:

Instructions for Students:

1. All Questions are Compulsory.

- 2. The student should attach proper cover page for each assignment clearly mentioning the Assignment No.
- 3. Each assignment should be prepared by the student individually with proper explaination and screenshots.
- 4. A4 size ruled sheets should be used for the assignment.
- 5. Assignment pages should be serially numbered at the bottom of page.

During online education mode, upload scanned copy of the complete assignment including cover page latest by due date.

QuestionNo.	Question	CO No.
1	Create the table departments using the following the following columns and insert any 4 values in the table:	
	 I. Dept_No INT (make this as primary key) II. Dept_Name VARCHAR(20), CHECK that the department name should among the following: a) Sales b) Marketing c) IT d) Accounting III. Location VARCHAR(20), CHECK that the location should be among the following: a) Delhi b) Mumbai 	CO1
	c) Noida	

	d) Gurugram	
2	d) Gurugram Create a table Employees using the following columns and insert any 3 values in it: I. Emp_No INT (make this as primary key), also CHECK that the Employee number should be between 1000 and 2000. II. Emp_Name VARCHAR(20) III. Designation VARCHAR(20), CHECK that the designation should be among the following: a) Saleman b) Analyst c) Manager d) President IV. Hire_date DATE V. Salary INT, CHECK that the salary should be >=1000 and <=5000.	CO 1
	VI. Commission INT VII. Dept_No INT (make this as the foreign key with reference to the department table), CHECK that the dept_no should be among the following: a) 10	
	b) 20 c) 30 d) 40	

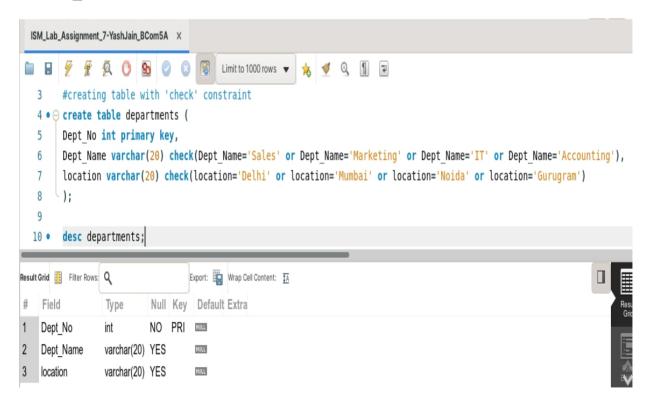
ASSIGNMENT 7 - CHECK CONSTRAINT

Task 1: Create the table departments using the following the following columns and insert any 4 values in the table:

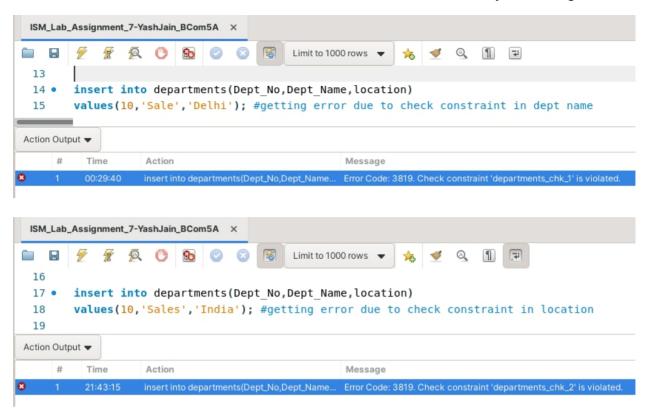
- I. Dept No INT (make this as primary key)
- II. Dept_Name VARCHAR(20), CHECK that the department name should among the following:
 - a) Sales
 - b) Marketing
 - c) IT
 - d) Accounting
- III. Location VARCHAR(20), CHECK that the location should be among the following:
 - a) Delhi
 - b) Mumbai
 - c) Noida
 - d) Gurugram

The following task is completed using the 'create table' command, along with the 'primary key' constraint, and the 'check' constraint, and the 'or' conditional operator. The check constraint allows input in a particular column of a table, only when certain declared conditions are met. The syntax for the 'check' constraint (to be defined in table definition) is:

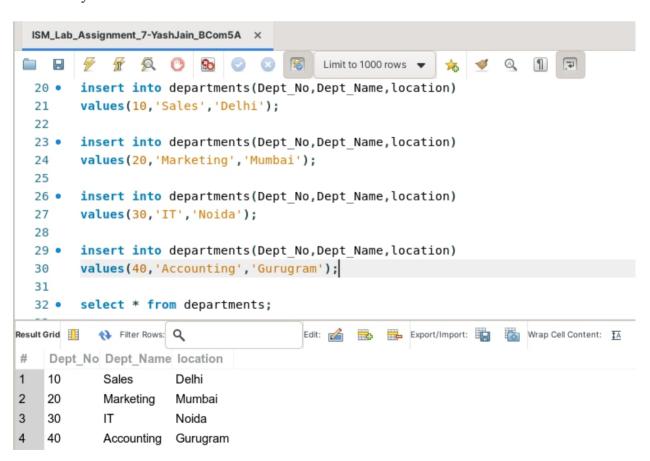
column_name check(condition),



Now, if we enter any value in the columns defined via check constraint that does not satisfy the conditions, then the guery won't be completed. This is depicted below.



Now, queries in which all the conditions under the check constraint are satisfied will be executed without any trouble.



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Task 2: Create a table Employees using the following columns and insert any 3 values in it:

- I. Emp_No INT (make this as primary key), also CHECK that the Employee number should be between 1000 and 2000.
- II. Emp Name VARCHAR(20)
- III. Designation VARCHAR(20), CHECK that the designation should be among the following:
 - e) Saleman
 - f) Analyst
 - g) Manager
 - h) President
- IV. Hire date DATE
- V. Salary INT, CHECK that the salary should be >=1000 and <=5000.
- **VI.** Commission INT
- VII. Dept_No INT (make this as the foreign key with reference to the department table), CHECK that the dept no should be among the following:
 - e) 10
 - f) 20
 - g) 30
 - h) 40

The following task is completed using the 'create table' command, along with the 'primary key' constraint, and the 'check' constraint, and the 'or' and the 'between' conditional operator, that allows us to define a range of the values entered in a column.

```
ISM_Lab_Assignment_7-YashJain_BCom5A ×
34
       #creating table employees with check constraint(s)
  35 • ⊝ create table employees(
       Emp_No int primary key check(Emp_No between 1000 and 2000), Emp_Name varchar(20),
  37 Designation varchar(20) check(Designation='Salesman' or Designation='Analyst'
      or Designation='Manager' or Designation='President'),
  38
     Hire Date date, salary int check(salary>=1000 and salary<=5000),
      commission int, Dept_No int check(Dept_No=10 or Dept_No=20 or Dept_No=30 or Dept_No=40),
  40
      Foreign key (Dept_No)references departments(Dept_No));
  41
  42
  43 • desc employees;
  44
Result Grid II Filter Rows: Q
                                Export: Wrap Cell Content: TA
               Type
int
   Field
                        Null Key Default Extra
1
                        NO PRI NULL
  Emp_No
2
               varchar(20) YES
   Emp Name
                                 NULL
3
               varchar(20) YES
   Designation
                                 NULL
               date
4
   Hire_Date
                        YES
                                 NULL
5
               int
   salary
                        YES
                                 NULL
6
               int
   commission
                       YES
                                 NULL
7 Dept_No
               int
                       YES MUL RULL
```

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While inserting the values using 'insert into' command, it is important to realize that all the conditions in the check constraints of each column should be satisfied, to successfully execute a query.

Otherwise, it will show an error, displaying, 'Check constraint error'. This is depicted here -



Now, to make our query successful, we need to enter values that satisfy the conditions of 'check' constraint of each and every column of the table. This is depicted below -

