**CSE Department**

**Advanced Database Management System Lab**

**CSH212**

**Lab - Creation of Tables**

**Lab Outcome:** Students will be able to use DDL – create/alter table statement – to create relations along with the constraints specified.

**Create the following relations along with the constraints specified:**

1. Client (clno char(3), clname varchar(30), cladd varchar(40))

* PRIMARY KEY- clno
* clname can not be left blank

1. Project (pno char(3), pname varchar(30), pstdate date, clno char(3))

* PRIMARY KEY- pno
* FOREIGN KEY – clno refers to Client relation
* pname can not be left blank

1. Department (dno char(3), dname varchar(20), dloc varchar(20), dhead char(3))

* PRIMARY KEY – dno
* FOREIGN KEY – dhead refers to eno of Employee relation
* dname can not be left blank
* default dloc is delhi

1. Employee (eno char(3), ename varchar(20), eadd varchar(30), ephone char(8), esal int, grade char(1), edoj date, dno char(3), emgrno char(3))

* PRIMARY KEY – eno
* FOREIGN KEY – dno refers to Department relation
* FOREIGN KEY – emgrno refers to eno of Employee relation
* salary can hold values between 1000 and 60000
* grade can be A – if salary less than 20000, B – if salary is between 20000 and 40000, C – if salary is greater than 40000
* doj should be more than 01-jan-1990
* ephone can have unique values only

1. Proj\_alloc (eno char(3), pno char(3), hrs int)

* PRIMARY KEY – eno, pno
* FOREIGN KEY – eno refers to Employee relation
* FOREIGN KEY – pno refers to Project relation
* hrs can have values more than 2

1. Dependent (eno char(3), dpname varchar(20), dpdob datetime, dprelation varchar(20))

* PRIMARY KEY – eno, dpname
* FOREIGN KEY – eno refers to Employee relation
* Dprelation can have only one of the values {son,daughter,father,mother}