



IEST, Shibpur
आई आई ई एस टि, शिवपुर
Erstwhile B E College (Estd 1856)

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Assignment 1 (Theory)

Database Management System

Submission Date: 11.09.2022

Faculty: Prof. Malay Kule

GitHub Link: [DBMS/Assignment 1 \(Theory\) at main · iamastik/DBMS \(github.com\)](https://github.com/iamastik/DBMS)

Q1. Emp Table Creation with Constraints:

EMP (EMPNO, ENAME, JOB, MGR,
HIREDATE, SAL, COMM, DEPTNO)
EMPNO must be between 7000
and 8000.

ENAME
must not exceed 10 characters.

JOB
must be in ('Clerk','Salesman','Manager','Analyst','President').

MGR
is the manager's EMPNO.

COMM
must be under 1500 and defaults to 0.

Solution 1:

```
use theory_assignment_1;

create table Emp(

    EmpNo int primary key,

    EName varchar(10),

    Job varchar(255),

    HireDate date,

    Sal int,

    Commision int default 0,

    MgrNo int references Emp(EmpNo) on delete cascade on update cascade,

    DeptNo varchar(255) references DEPT(DeptNo) on update cascade on delete cascade,

    check (EmpNo >= 7000 and EmpNo <= 8000),

    check (Commision >= 0 and Commision <= 1500),

    check (Job = 'Clerk' or Job = 'Salesman' or Job = 'Manager' or Job = 'Analyst' or Job = 'President')

);
```

Q2. DEPT Table Creation:

DEPT (DEPTNO, DNAME, LOC)

DEPTNO

must start with 'D'.

DNAME

must be 'Accounting' or 'Sales' or 'Research' or 'Operations'.

Solution 2:

```
use theory_assignment_1;
```

```
create table DEPT(
```

```
    DeptNo varchar(255) primary key,
```

```
    DName varchar(255),
```

```
    Loc varchar(255),
```

```
    check(DName Like 'D%'),
```

```
    check( DName ='Accounting' or DName = 'Sales' or DName ='Research' or  
DName='Operations')
```

```
)
```