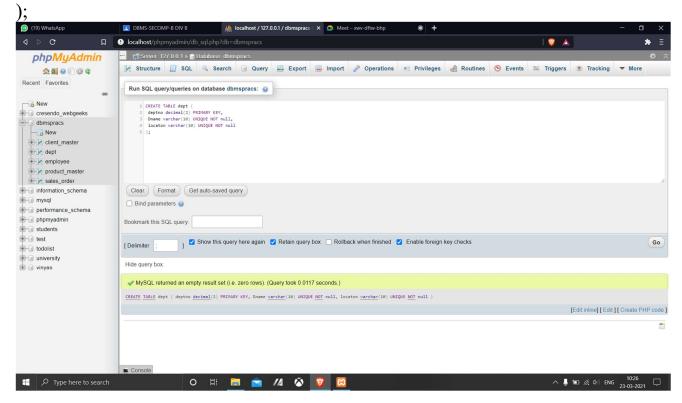
Name: Brendan Lucas, Div: SE COMP B, Roll No: 8953

# DBMS Practical Implementation, Lab 5-2.

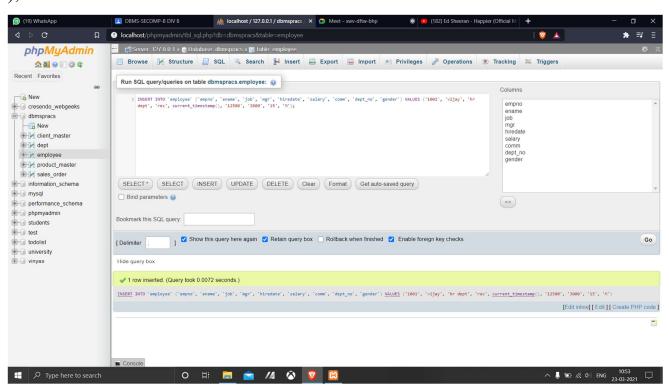
### 1. To Create Table Dept:

CREATE TABLE dept (
deptno decimal(2) PRIMARY KEY,
Dname varchar(10) UNIQUE NOT null,
locaton varchar(10) UNIQUE NOT null



```
2. To Create Table Employee:
CREATE TABLE employee

(
    empno char(4) PRIMARY KEY,
    ename varchar(10) NOT null,
    job varchar(10),
    mgr char(4),
    hiredate timestamp,
    salary decimal(8,2) DEFAULT 0,
    comm decimal(8,2) DEFAULT 0,
    dept_no decimal(2) REFERENCES dept(deptno),
    gender char CHECK(gender='M' OR gender='F')
);
```



#### 3. Insert Values into the Tables:

INSERT INTO 'dept' ('deptno', 'Dname', 'locaton') VALUES ('15', 'hr dept', 'Mumbai');

INSERT INTO 'dept' ('deptno', 'Dname', 'locaton') VALUES ('14', 'IT dept', 'Pune');

INSERT INTO 'dept' ('deptno', 'Dname', 'locaton') VALUES ('13', 'CS dept', 'Benguluru');

INSERT INTO 'dept' ('deptno', 'Dname', 'locaton') VALUES ('16', 'Mech dept', 'London'):

INSERT INTO 'dept' ('deptno', 'Dname', 'locaton') VALUES ('10', 'Cor dept', 'NewYork'):

INSERT INTO 'employee' ('empno', 'ename', 'job', 'mgr', 'hiredate', 'salary', 'comm', 'dept\_no', 'gender') VALUES ('1002', 'bhaskar', 'cs dept', 'sell', current timestamp(), '25000', '6000', '13', 'M');

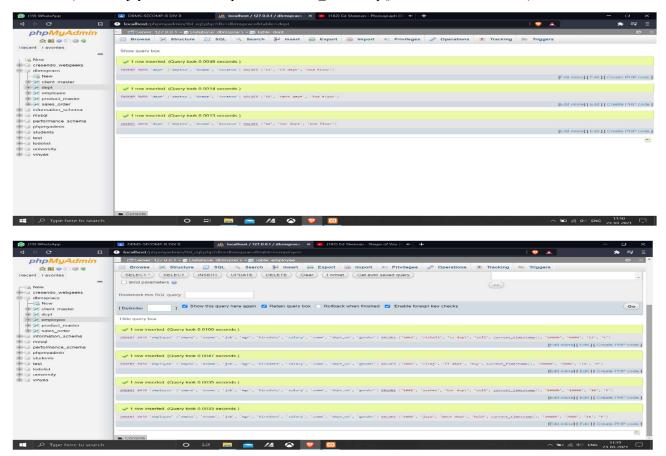
INSERT INTO 'employee' ('empno', 'ename', 'job', 'mgr', 'hiredate', 'salary', 'comm', 'dept\_no', 'gender') VALUES ('1003', 'vishali', 'cs dept', 'sell', current timestamp(), '25000', '6000', '13', 'F');

INSERT INTO 'employee' ('empno', 'ename', 'job', 'mgr', 'hiredate', 'salary', 'comm', 'dept\_no', 'gender') VALUES ('1004', 'viraj', 'IT dept', 'buy', current timestamp(), '20000', '5000', '14', 'M');

INSERT INTO 'employee' ('empno', 'ename', 'job', 'mgr', 'hiredate', 'salary', 'comm', 'dept\_no', 'gender') VALUES ('1005', 'sushma', 'Cor dept', 'sell', current timestamp(), '50000', '10000', '10', 'F');

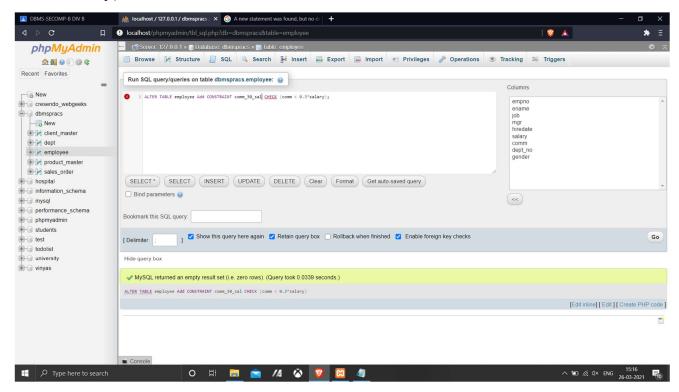
INSERT INTO 'employee' ('empno', 'ename', 'job', 'mgr', 'hiredate', 'salary', 'comm', 'dept\_no', 'gender') VALUES ('1006', 'jaya', 'mech dept', 'buld', current timestamp(), '30000', '7000', '16', 'F');

INSERT INTO 'employee' ('empno', 'ename', 'job', 'mgr', 'hiredate', 'salary', 'comm', 'dept\_no', 'gender') VALUES ('1001', 'vijay bhaskar', 'hr dept', 'rec', current timestamp(), '12500', '3000', '15', 'M');

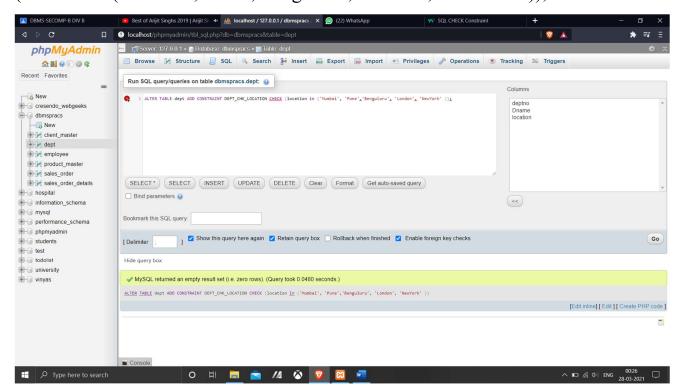


4. Add Constraint to table Employee such that commission cannot be greater than 30% salary:

ALTER TABLE employee Add CONSTRAINT comm\_30\_sal CHECK (comm < 0.3\*salary);

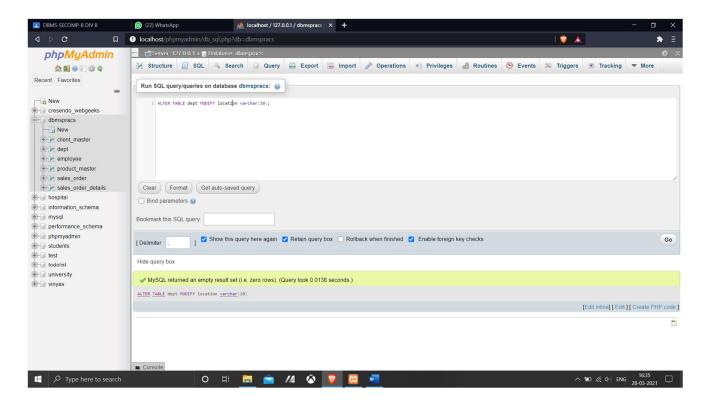


5. Add Constraint to table dept such that location can be only 5 cities: ALTER TABLE dept ADD CONSTRAINT DEPT\_CHK\_LOCATION CHECK (location in ('Mumbai', 'Pune', 'Benguluru', 'London', 'NewYork'));



## 6. Remove Unique Constraint From location column:

## ALTER TABLE dept MODIFY location varchar(10);



Postlob ExpS Pt-2. Date Default Constant? Not MULL Constract: By defult, the column one oble to hold MULL values, A Mot MULLcongland is SQL is used to preved insecting ITUL values into the spendered column Consend it as a not occupied value for their Column this meens that the seen should provide a voled SQL, Mot MUL value to that colory in the Insect on aplace statements, as the column well always Contain duty The Default Constraint. A Default Construint is aged to provede a default column vale for the inseeled you if no value is specified for that column in the Treest statement. The Default Constraint helps in Mainteen domain inlegisly my peared people volus paride a value for it. The default value con he a constant value, a system function value or AHOLL.

That is Princip key! What is Princip key. Consteart? The freman key conglowed consusts of one. Column with values that unequely identify each you in the table. The SQL Princip Key Considerat combine believes the UNIQUE and SQL MOTHOLL Consteaint, where the column or set of Columns that are facturating as a premay key connot accept a MULL VALUE . If the Prenog Kay is defeated in mulige Calunna, god con tasest duplerdevolus on such column individually but the Compensition values of all Premay key Coleens must be unique. Jokny late Considerator. that you can define only one truncy kaype. each table

(3) What is Foreign ky! What is Foreign ky.

Consteant? A Foreign key is a deleterine key that is used to link two tables together. The FOREST REY constraint identifies the relationship between the dalahorelables by referency a Column as a set of columns, in the CHILD table that contains the foreign key; to the PAJMARY KEY Column or set of Columnia the Parent tuble. The relationship between the child and part Lakes is maintained by theehing the epigling the child table Foreign key value in lay referenced for permany lay before insetting there values into the child table. In this way the Foreign key Constraint, in the child lake that reference the freman key is the paret table, will store enforce dalahare refreeled integrity beforencing integrety luques that the helationship between the dalabere is presume during deuta insertien process.