DBMS LAB – ASSIGNMENT-02



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Registration ID: 2021PGCACA011

Course: MCA 3rd Semester

Date: 26-08-2022

Instructor- D.A. KHAN

ASSIGNMENT-02

Using the information, implement the schema using Transact SQL (show SQL statements foreach table). Implement the constraints as well.

1. Create the table shown here in SQL and show the statements you used. Table: Employee

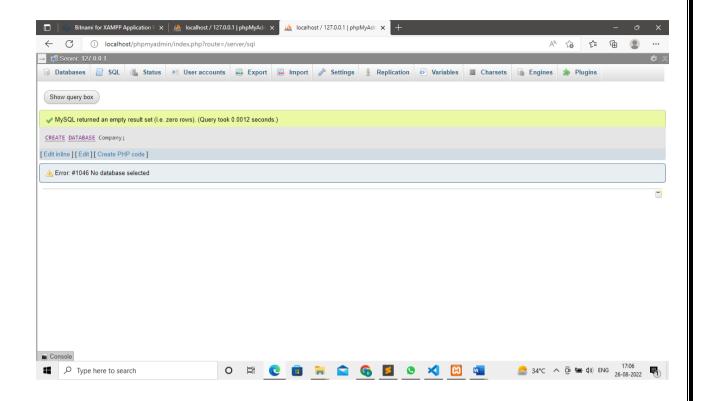
EMPLOYEE	FNAME	MNIT	LNAME	SSN	BDATE	ADDRESS	SEX	SALARY	SUPERSSN	DNO
	John	8	Smith	123456789	1966-01-09	731 Fondren, Houston, TX	M	30000	333445555	5
	Frankln	T	Wong	333445555	1955-12-08	638 Voss, Houston, TX	M	40000	888665555	5
	Alicia	J	Zeinya	999667777	1958-07-19	3321 Castle, Spring, TX	F	25000	967654321	4
	Jenniter	S	Wallace	987054321	1941-06-20	291 Berry, Betains, TX	F	43000	8880005505	4
	Ramosh	K	Norsyan	666884444	1962-09-16	975 Fire Oak, Humble, TX	M	39000	333445555	5
	Joyco	A	English	453453453	1972-07-31	5631 Flice, Houston, TX	F	25000	333445555	5
	Ahmad	V	Jabbar	907907907	1969-03-29	900 Dallas, Houston, TX	M	25000	967054321	4
	James		Borg	0800005005	1937-11-10	450 Stone, Houston, TX	M	55000	nut	1

DEPARTMENT	DNAME	DNUMBER	MGRSSN	MGRSTARTDATE	
	Research	5	333445555	1988-05-22	
	Administration	4	987654321	1995-01-01	
	Headquarters	1	888665555	1981-06-19	

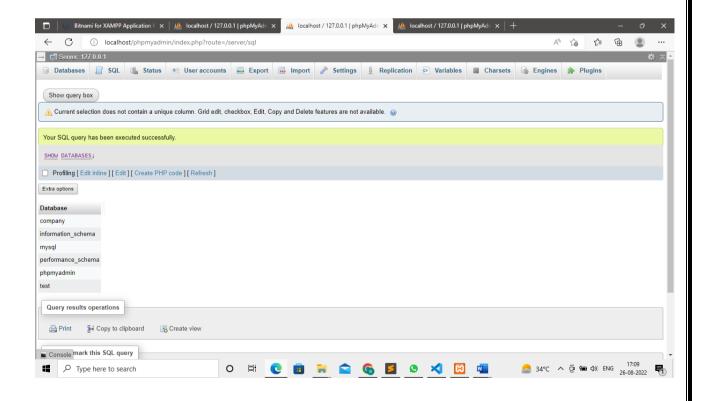
Perform the following:

- 1. Create company database
- 2. Viewing all databases
- 3. Viewing all Tables in a Database,
- 4. Creating Tables (With and Without Constraints)
- 5. Inserting/Updating/Deleting Records in a Table
- 6. Saving (Commit) and Undoing (rollback)

1. CREATE DATABASE Company;

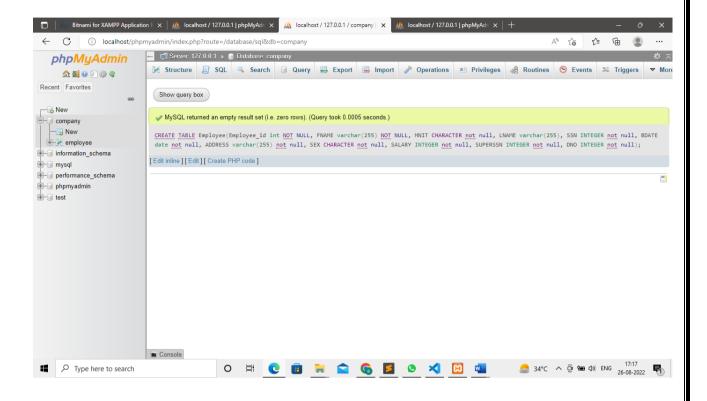


2. SHOW DATABASES;



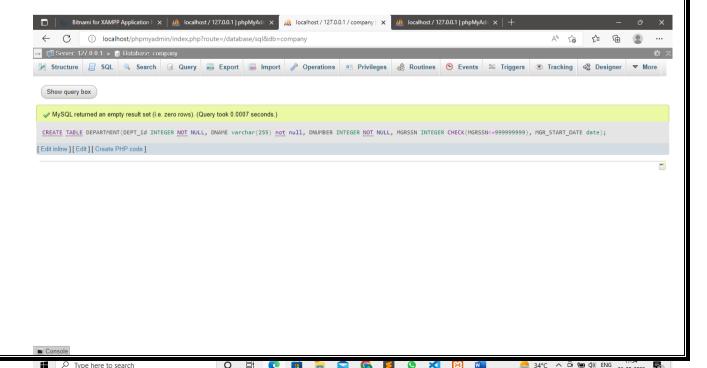
4. Creating table without Constraints

CREATE TABLE Employee (Employee_id int NOT NULL, FNAME varchar(255) NOT NULL, MN IT CHARACTER not null, LNAME varchar(255), SSN INTEGER not null, BDATE date not null, ADDRESS varchar(255) not null, SEX CHARACTER not null, SALARY INTEGER not null, SUPERSSN INTEGER not null, DNO INTEGER not null);



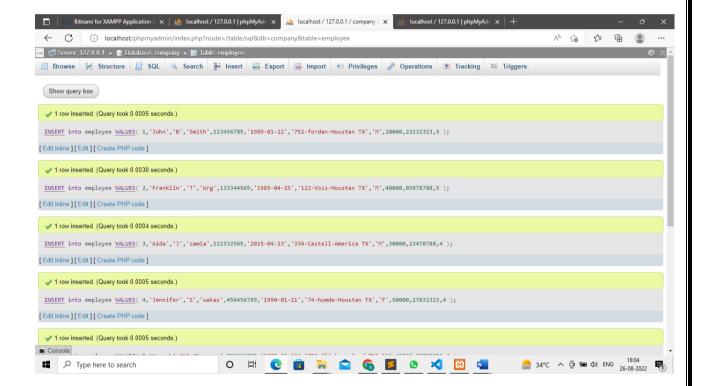
CREATING TABLE WITH CONSTRAINTS IN MGRSSN;

CREATE TABLE DEPARTMENT (DEPT_id INTEGER NOT NULL, DNAME varchar (255) not null, DNUMBER INTEGER NOT NULL, MGRSSN INTEGER CHECK (MGRSSN <= 999999999), MGR_START_DATE date);



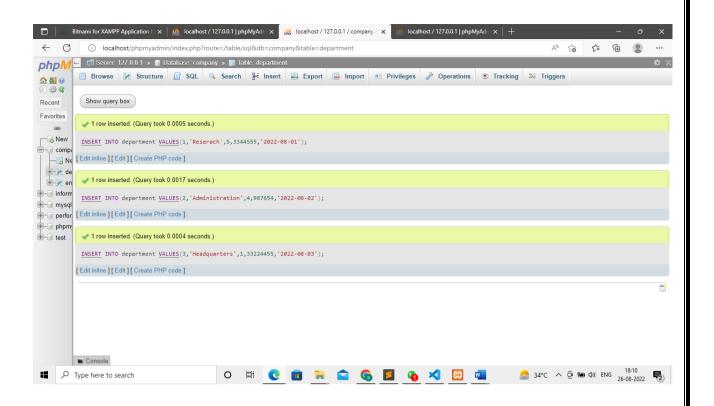
5. INSERT DATA INTO TABLE EMPLOYEE

```
1.INSERT into employee VALUES ( 1, 'John', 'B', 'Smith', 123456789, '1989-01-
22','752-fordan-Houstan TX','M',20000,23232323,5);
2. INSERT into employee VALUES( 2, 'Franklin', 'T', 'Wrg', 133344569, '1985-04-
25','122-Vois-Houstan TX','M',40000,89878788,5);
3. INSERT into employee VALUES( 3, 'Aida', 'J', 'zamia', 122332569, '2015-04-
23','334-Castell-America TX','M',30000,23478788,4);
4. INSERT into employee VALUES( 4, 'Jennifer', 'S', 'wakas', 456456789, '1990-01-
21','74-humde-Houstan TX','F',50000,27832323,4);
5. INSERT into employee VALUES (5, 'Harroh', 'K', 'Narayan', 787456789, '1979-03-12', '752-flick-england
TX','M',45000,98732323,4);
6. INSERT into employee VALUES ( 6, 'Joya', 'A', 'English', 345456789, '2001-04-
12','75-Dalma-Houstan TX','M',10000,11132323,5);
7. INSERT into employee VALUES( 7, 'Arrhad', 'V', 'johar', 777456789, '2021-01-
22','952-fortan-Houstan TX','F',25000,22232323,1 );
8. INSERT into employee VALUES( 8, 'Jumas', 'E', 'Bugs', 666456789, '1999-01-
22','752-soman-Houstan TX','M',150000,99832323,1 );
```



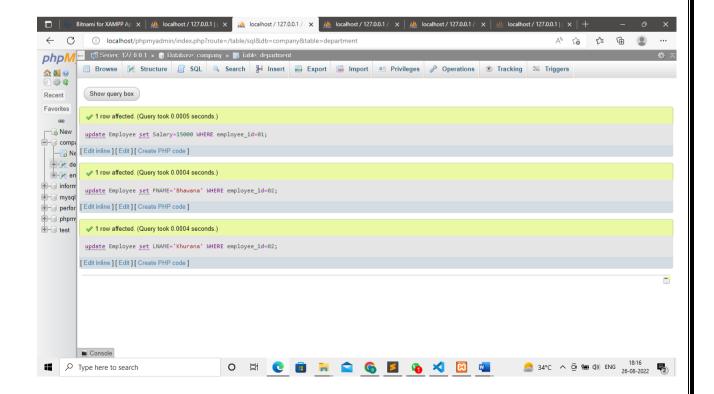
Insert into department

```
INSERT INTO department VALUES(1, 'Reserach', 5, 3344555, '2022-08-01');
INSERT INTO department VALUES(2, 'Administration', 4, 987654, '2022-08-02');
INSERT INTO department VALUES(3, 'Headquarters', 1, 33224455, '2022-08-03');
```

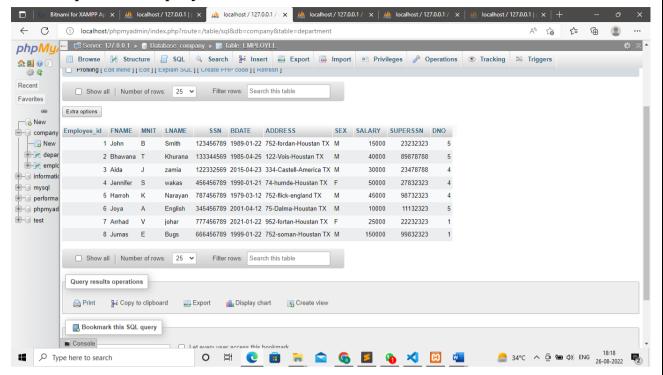


UPDATE

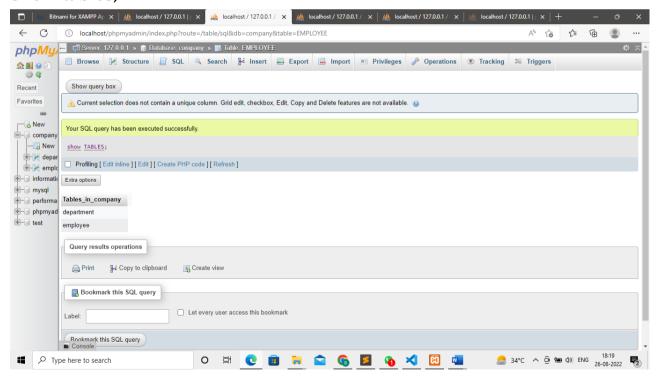
```
update Employee set Salary=15000 WHERE employee_id=01;
update Employee set FNAME='Bhawana' WHERE employee_id=02;
update Employee set LNAME='Khurana' WHERE employee id=02;
```



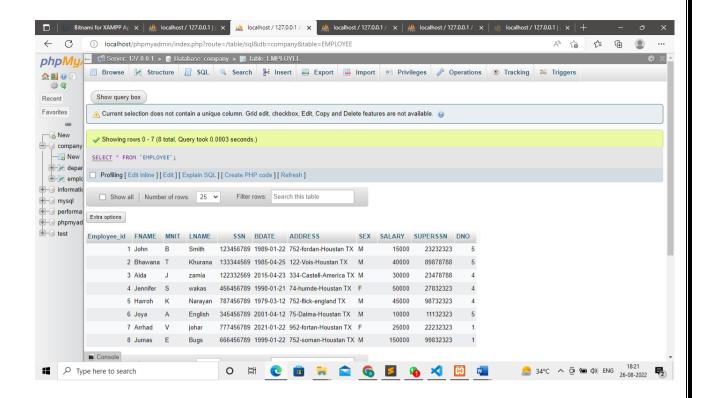
Show updated employee table



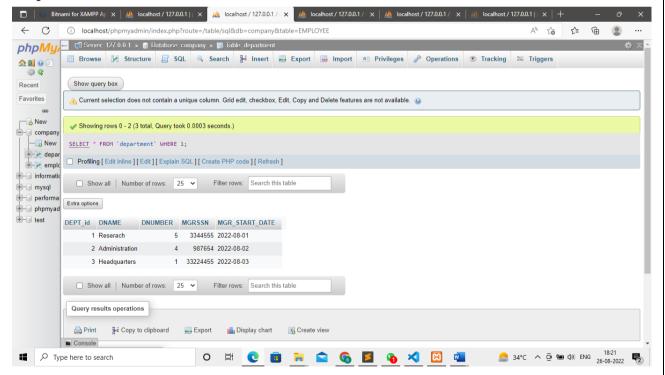
Show tables:



Employee table



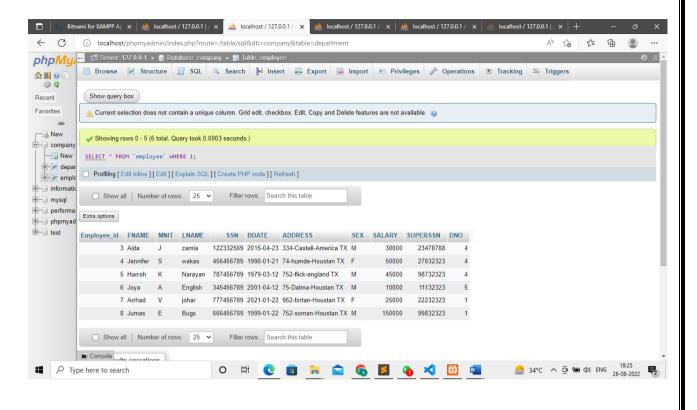
Department Table



Delete from employee

```
DELETE from employee where employee_id=1;
DELETE from employee where fname='Bhawana';
```

Show employee table

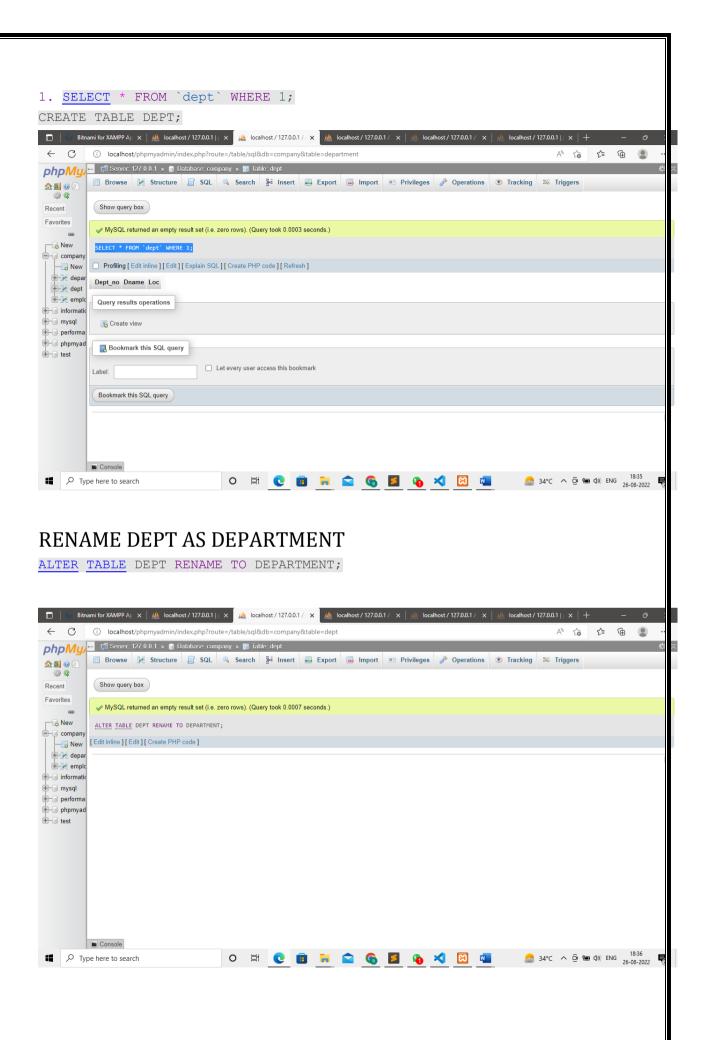


QUESTION-2 Consider Dept Table



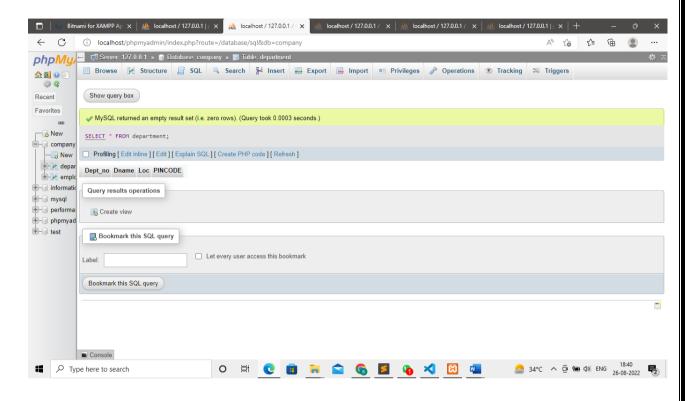
Perform the following:

- 1. Rename the table dept as department
- 2. Add a new column PINCODE with not null constraints to the existing table DEPT
- 3. All constraints and views that reference the column are dropped automatically, along withthe column.
- 4. Rename the column DNAME to DEPT_NAME in dept table
- 5. Change the data type of column loc as CHAR with size 10
- 6. Delete table



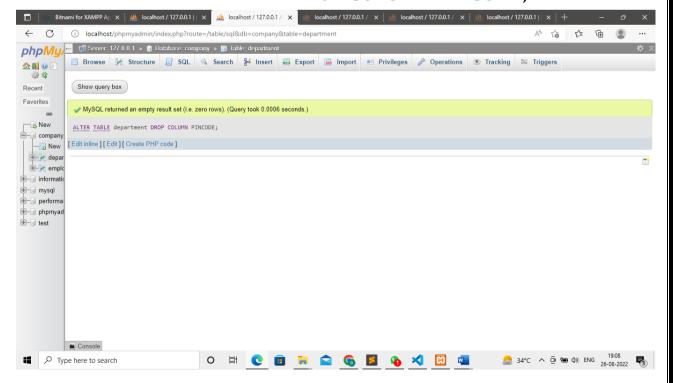
2.ADD COLUMN PINCODE

ALTER TABLE department ADD PINCODE INT NOT NULL;



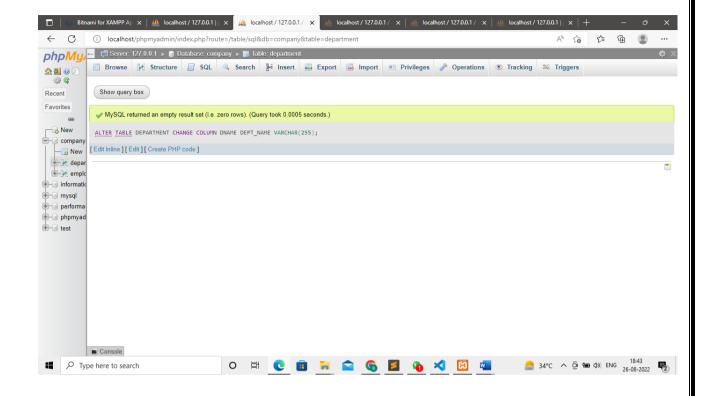
3

ALTER TABLE DEPARTMENT DROP COLUMN PINCODE:



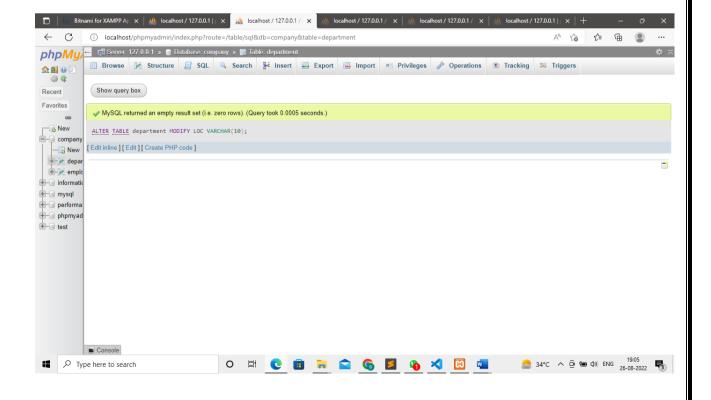
4.RENAME DNAME TO DEPT_NAME

ALTER TABLE DEPARTMENT CHANGE COLUMN DNAME DEPT NAME VARCHAR (255);



5. CHANGE THE DATATYPE OF COLUMN LOC AS CHAR WITH SIZE 10.

ALTER TABLE department MODIFY LOC VARCHAR(10);



6 DELETE TABLE

DROP TABLE department;

