CREATE DATABASE Lab10;

/\*Bảng 2\*/  
CREATE TABLE PHONGBAN(

TENPHG VARCHAR(15),

MAPH INT,

TRPHG VARCHAR(20),

NG\_NHANCHUC VARCHAR(20)

);

INSERT INTO PHONGBAN VALUES

('Nghien cuu',5,'333445555','22/05/1978'),  
('Dieu hanh',4,'987987987','01/01/1985'),

('Quan ly',1,'888665555','22/05/1978');

/\*Bảng 6\*/

CREATE TABLE PHANCONG(

MA\_NHANVIEN VARCHAR(15),

SODA INT,

THOIGIAN FLOAT,

PRIMARY KEY (MA\_NHANVIEN,SODA)

);

INSERT INTO PHANCONG VALUES

('123456789',1,32.5),

('123456789',2,7.5),

('666884444',3,40.0),

('453453453',1,20.0),

('453453453',2,20.0),

('333445555',3,10.0),

('333445555',10,10.0),

('333445555',20,10.0),

('999887777',30,30.0),

('999887777',10,10.0),

('987987987',10,35.0),

('987987987',30,5.0),

('987654321',30,20.0),

('987654321',20,15.0),

('888665555',20,NULL);

/\*Bảng 3\*/

CREATE TABLE DIADIEM\_PHG(

MAPHG INT ,

DIADIEM VARCHAR(30)

)

/\*Bảng 5\*/

CREATE TABLE DEAN(

TENDA VARCHAR(30),

MADA INT PRIMARY KEY,

DDIEM\_DA VARCHAR(30),

PHONG INT

)

INSERT INTO DIADIEM\_PHG VALUES

( '1', 'TP HCM'),

('4','HA NOI'),

('5','VUNG TAU'),

('5','NHA TRANG'),

('5','TP HCM');

INSERT INTO DEAN VALUES

('San pham X','1','VUNG TAU','5'),

('San pham Y','2','NHA TRANG','5'),

('San pham Z','3','TP HCM','5'),

('Tin quoc hoa','10','HA NOI','4'),

('Cap quang','20','TP HCM ','1'),

('Dao tao','30','HA NOI','4');

CREATE TABLE NHANVIEN(

HONV VARCHAR(30) NOT NULL,

TENLOT VARCHAR(30) NOT NULL,

TEN VARCHAR(30) NOT NULL,

MANV VARCHAR(20) NOT NULL,

NGSINH DATE NOT NULL,

DCHI VARCHAR(100) NOT NULL,

PHAI VARCHAR(10) NOT NULL,

LUONG INT NOT NULL,

MA\_NQL VARCHAR(10) NOT NULL,

PHG INT NOT NULL

)

/\*Bảng 1\*/

INSERT INTO NHANVIEN(HONV,TENLOT,TEN,MANV,NGSINH,DCHI,PHAI,LUONG,MA\_NQL,PHG)

VALUES

('Dinh','Ba','Tien','123456789','1955-01-09','731 Tran Hung Dao, Q1, TPHCM','Nam',30000,'333445555',5),

('Nguyen','Thanh','Tung','333445555','1945-12-08','638 Nguyen Van Cu, Q5, TPHCM','Nam',40000,'888665555',5),

('Bui','Thuy','Vu','999887777','1958-07-19','332 Nguyen Thai Hoc, Q1, TPHCM','Nam',25000,'987654321',4),

('Le','Thi','Nhan','987654321','1931-06-20','291 Ho Van Hue, QPN, TPHCM','Nu',43000,'888665555',4),

('Nguyen','Manh','Hung','666884444','1952-09-15','975 Ba Ria, Vung Tau','Nam',38000,'333445555',5),

('Tran','Thanh','Tam','453453453','1962-07-31','543 Mai Thi Luu, Q1, TPHCM','Nam',25000,'333445555',5),

('Tran','Hong','Quan','987987987','1959-03-29','980Le Hong Phong, Q10, TPHCM','Nam',25000,'333445555',4),

('Vuong','Ngoc','Quyen','888665555','1927-10-10','450 Trung Vuong, HaNoi','Nu',55000,'',1);

/\*Bảng 4\*/

CREATE TABLE [dbo].[THANNHAN] (

[MA\_NVIEN] INT NOT NULL,

[TENTN] VARCHAR (30) NOT NULL,

[PHAI] VARCHAR (10) NULL,

[NGSINH] DATE NULL,

[QUANHE] VARCHAR (30) NULL,

CONSTRAINT [PK\_THANNHAN] PRIMARY KEY CLUSTERED (MA\_NVIEN,TENTN)

);

INSERT INTO THANNHAN (MA\_NVIEN,TENTN,PHAI,NGSINH,QUANHE)

VALUES

(333445555,'Quang','Nu','1976/04/05','Con gai'),

(333445555,'Khang','Nam','1973/10/25','Con trai'),

(333445555,'Duong','Nu','1948/05/03','Vo chong'),

(987654321,'Dang','Nam','1932/02/29','Vo chong'),

(123456789,'Duy','Nam','1978/01/01','Con trai'),

(123456789,'Chau','Nu','1978/12/31','Con gai');

/\*1.1 List all information of employees (code, name, entered date, supervisor’s id,

supervisor’s name) that were employed from s to f. S and f are date value that were

been input parameters.\*/

CREATE PROCEDURE SP\_11

AS

WITH tmp AS ( SELECT \* FROM NHANVIEN)

SELECT NHANVIEN.MANV, NHANVIEN.TEN, PHONGBAN.NG\_NHANCHUC AS ENTERED\_DATE, NHANVIEN.MA\_NQL, tmp.TEN AS TEN\_NQL

FROM NHANVIEN LEFT JOIN tmp ON NHANVIEN.MA\_NQL= tmp.MANV

LEFT JOIN PHONGBAN ON NHANVIEN.MANV=PHONGBAN.TRPHG;

GO

EXEC SP\_11;

/\*1.2 List all employees (code, name, salary) whose salary more than the average salary

of the department that they work in.\*/

CREATE PROCEDURE SP\_12

AS

WITH tb AS (SELECT AVG(LUONG) AS luongtb FROM NHANVIEN)

SELECT MANV,TEN,LUONG FROM NHANVIEN

WHERE LUONG >= ALL(SELECT \* FROM tb);

GO

EXEC SP\_12;

/\*1.3 List N employees that have the highest salary. N is the input parameter\*/

CREATE PROCEDURE SP\_13

AS

SELECT DISTINCT TOP 4 LUONG

FROM NHANVIEN

ORDER BY LUONG DESC;

GO

EXEC SP\_13;

/\*1.4 Increase 10% for salary of all employees in the city A. A is the input parameter.\*/

CREATE PROCEDURE SP\_14

AS

UPDATE NHANVIEN

SET LUONG = LUONG \* 1.1

WHERE DCHI LIKE '%TPHCM%';

GO

EXEC SP\_14;

/\*1.5 Delete all no personnel departments. \*/

CREATE PROCEDURE SP\_15

AS

DELETE FROM PHONGBAN

WHERE MAPH NOT IN (SELECT PHG FROM NHANVIEN);

GO

INSERT INTO PHONGBAN VALUES ('xoa',2,'232434','1213');

SELECT \* FROM PHONGBAN;

EXEC SP\_15;

SELECT \* FROM PHONGBAN;

/\*2.1 The average salary of each department must be fewer than 50000\*/

CREATE TRIGGER TG\_21 ON NHANVIEN FOR INSERT AS

IF (50000<= ALL(SELECT AVG(NHANVIEN.LUONG) FROM NHANVIEN JOIN inserted ON NHANVIEN.MANV = inserted.MANV GROUP BY NHANVIEN.PHG ))

BEGIN

PRINT 'Luong TB > 50000'

ROLLBACK

END

INSERT INTO NHANVIEN VALUES ('Dinh','Ba','Thu2.1','1234567891','1955-01-09','731 Tran Hung Dao, Q1, TPHCM','Nam',100000,'333445555',5);

Graphical user interface, text, application

Description automatically generated

INSERT INTO NHANVIEN VALUES ('Dinh','Ba','Thu2.1','1234567891','1955-01-09','731 Tran Hung Dao, Q1, TPHCM','Nam',1000,'333445555',5);

A picture containing graphical user interface

Description automatically generated