

Q.1 Create a database named Personnel. 1.0 [\[Giải\]](#)

Q.2 Create the following tables as per the given structure. 2.0 [\[Giải\]](#)

Fields	Constraints	Datatype
Dept_Id	Primary key	Interger
Dept_Name	Not Null	Character
Function	Not Null	Character
Location	Receive only values: Hyderabad,	Character
	Bangalore, Numbai	

Fields	Constraints	Datatype
Emp_Id	primary key	Interger
Emp_Name	Not Null	Character
Dept_Id	Foreign key	Interger
Salary	Not Null	Interger
Address		Varchar
Phone		Interger

Q.3 Insert the following data into the tables 2.0 [\[Giải\]](#)

Employee

Emp_Id	Emp_Name	Dept_Id	Salary	Address	Phone
1	Shane	1	2000	California	4532145
2	Michael	3	5000	New york	6949434
3	Sam	1	2500	Washington	4445343
4	Clarke	2	4000	California	5675433
5	Monica	2	2000	Pentagon	3344434
6	Thomas	3	5500	California	3433322
7	James	1	2500	New York	2432243
8	Marry	1	4000	Pentagon	3422443
9	Strauss	2	2500	New Jersey	3342344
10	Stewart	3	4000	Washington	2333232

Q.4 Display the Emp_Id,Emp_Name,Dept_Id,Phone of the Employee with Emp_Name contains 'ch' or 'tr' 2.0 [\[Giải\]](#)

Q.5 Increase by 10% the Salary of the employees whom are from 'California' [\[Giải\]](#)

- Q.6** Display the total employee group by address 2.0 [\[Giải\]](#)
- Q.7** Display the average salary 1.0 [\[Giải\]](#)
- Q8** Display the total money that the company has to pay every month 1.0 [\[Giải\]](#)
- Q9** Display the details of the departments which locate in Bangalore. 1.0 [\[Giải\]](#)
- Q10** Display all the employees who live in California an belong to department 1 [\[Giải\]](#)
- Q11** Display total money per month that the company has to pay to the employees who live in Pentagon 2.0 [\[Giải\]](#)
- Q12** Display all employees in descending order of salary 1.0 [\[Giải\]](#)
- Q13** Display 3 first employees that have biggest salary 2.0 [\[Giải\]](#)
- Q14** Display the details of employee who has a phone numeric including 333 [\[Giải\]](#)
- Q15** Get Emp_Id,Emp_Name,Dept_Name,Location of all employees that have salary above 3000. 2.0 [\[Giải\]](#)

[Lời giải](#)

--- Q1---

```
create database Personnel
go
```

```
use Personnel
```

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--- Q2---

```
create table Department
(
Dept_Id int primary key,
Dept_Name char(20) not null,
[Function] char(20) not null,
Location char(20) check(Location in ('Numbai','Bangalore','Hyderabad'))
)
go
create table Employee
(
Emp_Id int primary key,
```

```
Emp_Name char(20) not null,  
Dept_Id int foreign key references Department(Dept_Id),  
Salary int not null,  
Address varchar(20),  
Phone int  
)  
Go
```

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--- Q3 ---

```
insert into Department values(1,'Computer','IT','Hyderabad')  
insert into Department values(2,'UTC','ACCP','Bangalore')  
insert into Department values(3,'Aptech','IMITH','Numbai')  
go  
insert into Employee values(1,'Shane',1,2000,'California',4532145)  
insert into Employee values(2,'Michael',3,5000,'New York',6949434)  
insert into Employee values(3,'Sam',1,2500,'Washington',4445343)  
insert into Employee values(4,'Clarke',2,4000,'California',5675433)  
insert into Employee values(5,'Monica',2,2000,'Pentagon',3344434)  
insert into Employee values(6,'Thomas',3,5500,'California',3433322)  
insert into Employee values(7,'James',1,2500,'New York',2432243)  
insert into Employee values(8,'Marry',1,4000,'Pentagon',3422443)  
insert into Employee values(9,'Strauss',2,2500,'New Jersey',3342344)  
insert into Employee values(10,'Stewart',3,4000,'Washington',2333232)  
go
```

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--- Q4 ---

```
select Emp_Id, Emp_Name, Dept_Id, Phone from Employee where (Emp_Name  
like '%ch%') or (Emp_Name like '%tr%')  
go
```

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--- Q5 ---

```
update Employee set Salary = (Salary/100)*110 where Address= 'California'  
go  
select * from Employee
```

[\[Top\]](#)

--- Q6 ---

```
Select Address, count(Emp_Id) as [Total employee] from Employee group by  
Address  
Go
```

[\[Top\]](#)

--- Q7 ---

```
Select sum(Salary)/count(Emp_Id) as [Average salary] from Employee  
go  
-- select avg(salary) from employee
```

[\[Top\]](#)

--- Q8 ---

```
Select sum(Salary) as [Total money] from Employee  
Go \[Top\]
```

--- Q9 ---

```
select * from Department where Location='Bangalore'  
go \[Top\]
```

--- Q10 ---

```
select * from Employee where Address='California' and Dept_Id=1  
go \[Top\]
```

--- Q11 ---

```
select sum(Salary) as Pentagon_Total_Money from Employee where  
Address='Pentagon'  
go \[Top\]
```

--- Q12 ---

```
select * from Employee order by Salary desc  
go \[Top\]
```

--- Q13 ---

```
select top 3 * from Employee order by Salary desc  
go \[Top\]
```

--- Q14 ---

```
select * from Employee where Phone like '%333%'  
go \[Top\]
```

--- Q15 ---

```
select Emp_Id,Emp_Name,Dept_Name,Location from Employee inner join  
Department on Employee.Dept_Id=Department.Dept_Id where Salary >3000  
go \[Top\]
```