Lab3

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Link Github: https://github.com/kaito7love/CSE301.git

Problem 1:

Clients:

Client_Number	Client_Name	Address	City	Pincode	Province	Amount_Paid	Amount_Due
C101	Mai Xuan	Phu Hoa	Dai An	700001	Binh Duong	10000.0000	5000.0000
C102	Le Xuan	Phu Hoa	Thu Dau Mot	700051	Binh Duong	18000.0000	3000.0000
C103	Trinh Huu	Phu Loi	Da Lat	700051	Lam Dong	7000.0000	3200.0000
C104	Tran Tuan	Phu Tan	Thu Dau Mot	700080	Binh Duong	8000.0000	0.0000
C105	Ho Nhu	Chanh My	Hanoi	700005	Hanoi	7000.0000	150.0000
C106	Tran Hai	Phu Hoa	Ho Chi Minh	700002	Ho Chi Minh	7000.0000	1300.0000
C107	Nguyen Thanh	Hoa Phu	Dai An	700023	Binh Duong	8500.0000	7500.0000
C108	Nguyen Sy	Tan An	Da Lat	700032	Lam Dong	15000.0000	1000.0000
C109	Duong Thanh	Phu Hoa	Ho Chi Minh	700011	Ho Chi Minh	12000.0000	8000.0000
C110	Tran Minh	Phu My	Hanoi	700005	Hanoi	9000.0000	1000.0000
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Product:

Product_Number	Product_Name	Quantity_On_Hand	Quantity_Sell	Sell_Price	Cost_Price
P1001	TV	10	30	1000.0000	800.0000
P1002	Laptop	12	25	1500.0000	1100.0000
P1003	AC	23	10	400.0000	300.0000
P1004	Modem	22	16	250.0000	230.0000
P1005	Pen	19	13	12.0000	8.0000
P1006	Mouse	5	10	100.0000	105.0000
P1007	Keyboard	45	60	120.0000	90.0000
P1008	Headset	63	75	50.0000	40.0000
NULL	NULL	NULL	NULL	NULL	NULL

Salesman:

Salesman_Number	Salesman_Name	Address	City	Pincode	Province	Salary	Sales_Target	Phone	Target_Achieve
S001	Huu	Phu Tan	Ho Chi Minh	700002	Ho Chi Minh	15000	50	0902361123	35
S002	Phat	Tan An	Hanoi	700005	Hanoi	25000	100	0903216542	110
S003	Khoa	Phu Hoa	Thu Dau Mot	700051	Binh Duong	17500	40	0904589632	30
S004	Tien	Phu Hoa	Dai An	700023	Binh Duong	16500	70	0908654723	72
S005	Deb	Hoa Phu	Thu Dau Mot	700051	Binh Duong	13500	60	0903213659	48
S006	Tin	Chanh My	Da Lat	700032	Lam Dong	20000	80	0907853497	55
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

SalesOrder:

Order_Number	Order_Date	Client_Number	Salesman_Number	Delivery_Status	Delivery_Date	Order_Status
O20001	2022-01-15	C101	S003	Delivered	2022-02-10	Successful
O20002	2022-01-25	C102	S003	Delivered	2022-02-15	Cancelled
O20003	2022-01-31	C103	S002	Delivered	2022-04-03	Successful
O20004	2022-02-10	C104	S003	Delivered	2022-04-23	Successful
O20005	2022-02-18	C101	S003	On Way	NULL	Cancelled
O20006	2022-02-22	C105	S005	Ready to Ship	NULL	In Process
O20007	2022-04-03	C106	S001	Delivered	2022-05-08	Successful
O20008	2022-04-16	C102	S006	Ready to Ship	NULL	In Process
O20009	2022-04-24	C101	S004	On Way	NULL	Successful
O20010	2022-04-29	C106	S006	Delivered	2022-05-08	Successful
O20011	2022-05-08	C107	S005	Ready to Ship	NULL	Cancelled
O20012	2022-05-12	C108	S004	On Way	NULL	Successful
O20013	2022-05-16	C109	S001	Ready to Ship	NULL	In Process
O20014	2022-05-16	C110	S001	On Way	NULL	Successful
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Problem 2:

Employees

employeeID	lastName	middleName	firstName	dateOfBirth	gender	salary	address	managerID	departmentID
123	Dinh	Ba	Tien	1955-01-09	Nam	30000.0000	Tran Hung Dao Q1	333	5
333	Nguyen	Thanh	Tung	1945-12-08	Nam	40000.0000	Nguyen Van Cu Q5	888	5
453	Fran	Thanh	Tam	1962-07-31	Nam	25000.0000	Mai Thi Luu Ba Dinh Ha	333	5
666	Nguyen	Manh	Hung	1952-09-15	Nam	38000.0000	Le Lai P3 Vung Tau	333	5
777	Fran	Hong	Quang	1959-03-29	Nam	25000.0000	Le Hong Phong Vung Tau	987	4
888	Vuong	Ngoc	Quyen	1927-10-10	Nu	55000.0000	Trung Vuong My Tho TG	1	1
987	Le	Thi	Nhan	1931-06-20	Nu	43000.0000	Ho Van Hue Q.PN	888	4
999	Bui	Thuy	Vu	1958-07-19	Nam	25000.0000	Nguyen Thai Hoc Quy	987	4
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
4       -- Create table EMPLOYEES --
5 ● ⊖ create table EMPLOYEES (
6           employeeID varchar(3) PRIMARY KEY,
7           lastName varchar(20) NOT NULL,
8           middleName varchar(20) NULL,
9           firstName varchar(20) NOT NULL,
0           dateOfBirth date NOT NULL,
1           gender varchar(5) NOT NULL,
2           salary decimal(15,4) NOT NULL,
3           address varchar(100) NOT NULL,
4           managerID varchar(3),
5           departmentID int
6       );
7
```

```
INSERT INTO EMPLOYEES (lastName, middleName, firstName, employeeID, dateOfBirth, address, gender, salary, managerID, departmentID) VAI
('Dinh', 'Ba', 'Tien', 123, '1955/01/09', 'Tran Hung Dao Q1', 'Nam', 30000, 333, 5),
('Nguyen', 'Thanh', 'Tung', 333, '1945/12/08', 'Nguyen Van Cu Q5', 'Nam', 40000, 888, 5),
('Fran', 'Thanh', 'Tam', 453, '1962/07/31', 'Mai Thi Luu Ba Dinh Ha', 'Nam', 25000, 333, 5),
('Nguyen', 'Manh', 'Hung', 666, '1952/09/15', 'Le Lai P3 Vung Tau', 'Nam', 38000, 333, 5),
('Vuong', 'Ngoc', 'Quyen', 888, '1927/10/10', 'Trung Vuong My Tho TG', 'Nu', 55000, 1, 1),
('Le', 'Thi', 'Nhan', 987, '1931/06/20', 'Ho Van Hue Q.PN', 'Nu', 43000, 888, 4),
('Fran', 'Hong', 'Quang', 777, '1959/03/29', 'Le Hong Phong Vung Tau', 'Nam', 25000, 987, 4),
('Bui', 'Thuy', 'Vu', 999, '1958/07/19', 'Nguyen Thai Hoc Quy', 'Nam', 25000, 987, 4);
```

DEPARTMENT

departmentID	departmentName	managerID	dateOfEmployment
1	Quan ly	888	1971-06-19
4	Dieu hanh	777	1985-01-01
5	Nghien cuu	333	1978-05-22
NULL	NULL	NULL	NULL

```
-- Create table DEPARTMENT --
create table DEPARTMENT (
    departmentID int PRIMARY KEY,
    departmentName varchar(50) NOT NULL,
    managerID varchar(3),
    dateOfEmployment date NOT NULL
);
```

```
-- Create table DEPARTMENTADDRESS --
create table DEPARTMENTADDRESS (
    departmentID int,
    address varchar(100)
);
```

```
INSERT INTO DEPARTMENT (departmentID, departmentName, managerID, dateOfEmployment) VALUES
    (1, 'Quan ly', '888', '1971-06-19'),
    (4, 'Dieu hanh', '777', '1985-01-01'),
    (5, 'Nghien cuu', '333', '1978-05-22');
```

PROJECTS

projectID	projectName	projectAddress	departmentID
1	San pham X	VUNG TAU	5
2	San pham Y	NHA TRANG	5
3	San pham Z	TP HCM	5
10	Tin hoc hoa	HA NOI	4
20	Cap Quang	TP HCM	1
30	Dao tao	HA NOI	4
NULL	NULL	NULL	NULL

```
-- Create table PROJECTS --
create table PROJECTS (
    projectID int PRIMARY KEY,
    projectName varchar(50) NOT NULL,
    projectAddress varchar(100) NOT NULL,
    departmentID int
);
```

```
INSERT INTO PROJECTS (projectName, projectID, projectAddress, departmentID) VALUES
('San pham X', 1, 'VUNG TAU', 5),
('San pham Y', 2, 'NHA TRANG', 5),
('San pham Z', 3, 'TP HCM', 5),
('Tin hoc hoa', 10, 'HA NOI', 4),
('Cap Quang', 20, 'TP HCM', 1),
('Dao tao', 30, 'HA NOI', 4);
```

ASSIGNMENT

employeeID	projectID	workingHour
123	1	22.5
123	2	7.5
123	3	10
333	10	10
333	20	10
453	1	20
453	2	20
666	3	40
888	20	0
987	20	15

```
-- Create table ASSIGNMENT --
create table ASSIGNMENT (
    employeeID varchar(3),
    projectID int,
    workingHour float NOT NULL
);
```

```
INSERT INTO ASSIGNMENT (MA, NVIEN, SODA, THOIGIAN) VALUES
(123, NULL, 1, 22.5),
(123, NULL, 2, 7.5),
(123, NULL, 3, 10),
(333, NULL, 10, 10),
(333, NULL, 20, 10),
(453, NULL, 1, 20),
(453, NULL, 2, 20),
(666, NULL, 3, 40),
(888, NULL, 20, 0),
(987, NULL, 20, 15);
```

RELATIVE

employeeID	relativeName	gender	dateOfBirth	relationship
123	Chau	Nu	1978-12-31	Con gai
123	Duy	Nam	1978-01-01	Con trai
123	Phuong	Nu	1957-05-05	Vo chong
333	Duong	Nu	1948-05-03	Vo chong
333	Quang	Nu	1976-04-05	Con gai
333	Tung	Nam	1973-10-25	Con trai
987	Dang	Nam	1932-02-29	Vo chong
NULL	NULL	NULL	NULL	NULL

```sql
-- Create table RELATIVE --
create table RELATIVE (
    employeeID varchar(3),
    relativeName varchar(50),
    gender varchar(5) NOT NULL,
    dateOfBirth date,
    relationship varchar(30) NOT NULL
);


INSERT INTO RELATIVE (employeeID, relativeName, gender, date0fBirth, relationship)
VALUES
    (123, 'Chau', 'Nu', '1978-12-31', 'Con gai'),
    (123, 'Duy', 'Nam', '1978-01-01', 'Con trai'),
    (123, 'Phuong', 'Nu', '1957-05-05', 'Vo chong'),
    (333, 'Duong', 'Nu', '1948-05-03', 'Vo chong'),
    (333, 'Quang', 'Nu', '1976-04-05', 'Con gai'),
    (333, 'Tung', 'Nam', '1973-10-25', 'Con trai'),
    (987, 'Dang', 'Nam', '1932-02-29', 'Vo chong');
```