Table Schema:

Create Tables with Integrity Constrains:

a) EMP (empno - primary key, empname, salary, deptname - references entries in a deptname of department table with null constraint, bossno - references entries in an empno of emp table with null constraint)

b) DEPARTMENT (deptname - primary key, floor, phone, empno - references entries in an empno of emp table not null)

c) SALES (salesno - primary key, saleqty, itemname -references entries in a itemname of item table with not null constraint, deptname - references entries in a deptname of department table with not null constraint)

d) ITEM (itemname - primary key, itemtype, itemcolor)

Data For Tables:

Bossno is a reference to the empno

EMP table:

Empno Empname Empsalary Department Bossno

1 Alice 75000 Management -------

2 Ned 45000 Marketing 1

3 Andrew 25000 Marketing 2

4 Clare 22000 Marketing 2

5 Todd 38000 Accounting 1

6 Nancy 22000 Accounting 5

7 Brier 43000 Purchasing 1

8 Sarah 56000 Purchasing 7

9 Sophile 35000 Personnel 1

10 Sanjay 15000 Navigation 3

11 Rita 15000 Books 4

12 Gigi 16000 Clothes 4

13 Maggie 11000 Clothes 4

14 Paul 15000 Equipment 3

15 James 15000 Equipment 3

16 Pat 15000 Furniture 3

17 Mark 15000 Recreation 3

DEPARTMENT:

Deptname Deptfloor Deptphone MgrId

Management 5 34 1

Books 1 81 4

Clothes 2 24 4

Equipment 3 57 3

Furniture 4 14 3

Navigation 1 41 3

Recreation 2 29 4

Accounting 5 35 5

Purchasing 5 36 7

Personnel 5 37 9

Marketing 5 38 2

SALES Table:

Salesno Saleqty itemname Deptname

101 2 Boots-snake proof Clothes

102 1 Pith Helmet Clothes

103 1 Sextant Navigation

104 3 Hat-polar Explorer Clothes

105 5 Pith Helmet Equipment

106 2 Pocket Knife-Nile Clothes

107 3 Pocket Knife-Nile Recreation

108 1 Compass Navigation

109 2 Geo positioning system Navigation

110 5 Map Measure Navigation

111 1 Geo positioning system Books

112 1 Sextant Books

113 3 Pocket Knife-Nile Books

114 1 Pocket Knife-Nile Navigation

115 1 Pocket Knife-Nile Equipment

116 1 Sextant Clothes

117 1 " Equipment

118 1 " Recreation

119 1 " Furniture

120 1 Pocket Knife-Nile "

121 1 Exploring in 10 easy lessons Books

122 1 How to win foreign friends "

123 1 Compass "

124 1 Pith Helmet "

125 1 Elephant Polo stick Recreation

126 1 Camel Saddle Recreation

ITEM table:

Itemname itemtype itemcolor

Pocket Knife-Nile E Brown

Pocket Knife-Avon E Brown

Compass N --

Geo positioning system N --

Elephant Polo stick R Bamboo

Camel Saddle R Brown

Sextant N --

Map Measure N --

Boots-snake proof C Green

Pith Helmet C Khaki

Hat-polar Explorer C White

Exploring in 10 Easy Lessons B --

Hammock F Khaki

How to win Foreign Friends B --

Map case E Brown

Safari Chair F Khaki

Safari cooking kit F Khaki

Stetson C Black

Tent - 2 person F Khaki

Tent -8 person F Khaki

use master

create database dbDay1

use dbDay1

create table Item(

itemName varchar(30) primary key,

itemType char(1),

itemColor varchar(20),

)

--insert rows to table Item

insert into Item values('Pocket Knife-Nile', 'E', 'Brown')

insert into Item values('Pocket Knife-Avon', 'E', 'Brown')

insert into Item values('Compass', 'N', '')

insert into Item values('Geo positioning system', 'N', '')

insert into Item values('Elephant Polo stick', 'R', 'Bamboo')

insert into Item values('Camel Saddle', 'R', 'Brown')

insert into Item values('Sextant', 'N', '')

insert into Item values('Map Measure', 'N', '')

insert into Item values('Boots-snake proof', 'C', 'Green')

insert into Item values('Pith Helmet', 'C', 'Khaki')

insert into Item values('Hat-polar Explorer', 'C', 'White')

insert into Item values('Exploring in 10 Easy Lessons', 'B', '')

insert into Item values('Hammock', 'F', 'Khaki')

insert into Item values('How to win Foreign Friends', 'B', '')

insert into Item values('Map case', 'E', 'Brown')

insert into Item values('Safari Chair', 'F', 'Khaki')

insert into Item values('Safari cooking kit', 'F', 'Khaki')

insert into Item values('Stetson', 'C', 'Black')

insert into Item values('Tent - 2 person', 'F', 'Khaki')

insert into Item values('Tent - 8 person', 'F', 'Khaki')

insert into Item values('', '', '')

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create table EMP(

empNo int not null identity(1,1) primary key,

empName varchar(30),

salary int,

bossNo int references EMP(empNo),

)

--insert rows to EMP

insert into EMP(empName, salary) values('Alice', 75000)

insert into EMP(empName, salary, bossNo) values('Ned', 45000, 1)

insert into EMP(empName, salary, bossNo) values('Andrew', 25000, 2)

insert into EMP(empName, salary, bossNo) values('Clare', 22000, 2)

insert into EMP(empName, salary, bossNo) values('Todd', 38000, 1)

insert into EMP(empName, salary, bossNo) values('Nancy', 22000, 5)

insert into EMP(empName, salary, bossNo) values('Brier', 43000, 1)

insert into EMP(empName, salary, bossNo) values('Sarah', 56000, 7)

insert into EMP(empName, salary, bossNo) values('Sophile', 35000, 1)

insert into EMP(empName, salary, bossNo) values('Sanjay', 15000, 3)

insert into EMP(empName, salary, bossNo) values('Rita', 15000, 4)

insert into EMP(empName, salary, bossNo) values('Gigi', 16000, 4)

insert into EMP(empName, salary, bossNo) values('Maggie', 11000, 4)

insert into EMP(empName, salary, bossNo) values('Paul', 15000, 3)

insert into EMP(empName, salary, bossNo) values('James', 15000, 3)

insert into EMP(empName, salary, bossNo) values('Pat', 15000, 3)

insert into EMP(empName, salary, bossNo) values('Mark', 15000, 3)

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create table Department(

deptName varchar(30) primary key,

deptFloor int,

deptPhone int,

empNo int not null references EMP(empNo),

)

--insert rows to Department

insert into Department values ('Management', 5, 34, 1)

insert into Department values ('Books', 1, 81, 4)

insert into Department values ('Clothes', 2, 24, 4)

insert into Department values ('Equipment', 3, 57, 3)

insert into Department values ('Furniture', 4, 14, 3)

insert into Department values ('Navigation', 1, 41, 3)

insert into Department values ('Recreation', 2, 29, 4)

insert into Department values ('Accounting', 5, 35, 5)

insert into Department values ('Purchasing', 5, 36, 7)

insert into Department values ('Personnel', 5, 37, 9)

insert into Department values ('Marketing', 5, 38, 2)

insert into Department values ('', , , )

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create table Sales(

salesNo int not null identity(101,1) primary key,

salesQty int,

itemName varchar(30) references Item(itemName),

deptName varchar(30) references Department(deptName),

)

--insert rows to Sales

insert into Sales(salesQty, itemName, deptName) values (2, 'Boots-snake proof', 'Clothes')

insert into Sales(salesQty, itemName, deptName) values (1, 'Pith Helmet', 'Clothes')

insert into Sales(salesQty, itemName, deptName) values (1, 'Sextant', 'Navigation')

insert into Sales(salesQty, itemName, deptName) values (3, 'Hat-polar Explorer', 'Clothes')

insert into Sales(salesQty, itemName, deptName) values (5, 'Pith Helmet', 'Equipment')

insert into Sales(salesQty, itemName, deptName) values (2, 'Pocket Knife-Nile', 'Clothes')

insert into Sales(salesQty, itemName, deptName) values (3, 'Pocket Knife-Nile', 'Recreation')

insert into Sales(salesQty, itemName, deptName) values (1, 'Compass', 'Navigation')

insert into Sales(salesQty, itemName, deptName) values (2, 'Geo positioning system', 'Navigation')

insert into Sales(salesQty, itemName, deptName) values (5, 'Map Measure', 'Navigation')

insert into Sales(salesQty, itemName, deptName) values (1, 'Geo positioning system', 'Books')

insert into Sales(salesQty, itemName, deptName) values (1, 'Sextant', 'Books')

insert into Sales(salesQty, itemName, deptName) values (3, 'Pocket Knife-Nile', 'Books')

insert into Sales(salesQty, itemName, deptName) values (1, 'Pocket Knife-Nile', 'Navigation')

insert into Sales(salesQty, itemName, deptName) values (1, 'Pocket Knife-Nile', 'Equipment')

insert into Sales(salesQty, itemName, deptName) values (1, 'Sextant', 'Clothes')

--how come have null (ask this tomorrow)

--insert into Sales(salesQty, itemName, deptName) values (1, '', 'Equipment')

--insert into Sales(salesQty, itemName, deptName) values (1, '', 'Recreation')

--insert into Sales(salesQty, itemName, deptName) values (1, '', 'Furniture')

--insert into Sales(salesQty, itemName, deptName) values (1, 'Pocket Knife-Nile', '')

--insert into Sales(salesQty, itemName, deptName) values (1, 'Exploring in 10 Easy Lessons', 'Books')

--insert into Sales(salesQty, itemName, deptName) values (1, 'How to win foreign friends', '')

--insert into Sales(salesQty, itemName, deptName) values (1, 'Compass', '')

--insert into Sales(salesQty, itemName, deptName) values (1, 'Pith Helmet', '')

--insert into Sales(salesQty, itemName, deptName) values (1, 'Elephant Polo stick', 'Recreation')

--insert into Sales(salesQty, itemName, deptName) values (1, 'Camel Saddle', 'Recreation')

alter table EMP

add deptName varchar(30) references Department(deptName)

--update existing data rows in table EMP

update EMP set deptName = 'Management' where empNo = 1

update EMP set deptName = 'Marketing' where empNo = 2

update EMP set deptName = 'Marketing' where empNo = 3

update EMP set deptName = 'Marketing' where empNo = 4

update EMP set deptName = 'Accounting' where empNo = 5

update EMP set deptName = 'Accounting' where empNo = 6

update EMP set deptName = 'Purchasing' where empNo = 7

update EMP set deptName = 'Purchasing' where empNo = 8

update EMP set deptName = 'Personnel' where empNo = 9

update EMP set deptName = 'Navigation' where empNo = 10

update EMP set deptName = 'Books' where empNo = 11

update EMP set deptName = 'Clothes' where empNo = 12

update EMP set deptName = 'Clothes' where empNo = 13

update EMP set deptName = 'Equipment' where empNo = 14

update EMP set deptName = 'Equipment' where empNo = 15

update EMP set deptName = 'Furniture' where empNo = 16

update EMP set deptName = 'Recreation' where empNo = 17

select \* from Item

select \* from EMP

select \* from Department

select \* from Sales