Assignment No 02

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 EMPto 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

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TABLE ITEM

create table ITEM(itemname varchar(25) primary key,itemtype varchar(5),itemcolor varchar(15));

\d item;

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TABLE DEPARTMENT

create table DEPARTMENT(deptname varchar(20) primary key,deptphone varchar(15) , deptfloor int, DeptMgrId int));

\d department

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EMP TABLE

create table EMP(empno int GENERATED ALWAYS AS IDENTITY ,empname varchar(30),empsalary varchar(8),bossno int,deptname varchar(30) references DEPARTMENT(deptname) not null,constraint fk\_emp\_deptname Foreign key(deptname) references DEPARTMENT(deptname))

alter table EMP add constraint pk\_empempno primary key(empno);

\d emp

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SALES TABLE

create table SALES(salesno int primary key,saleqty int,itemname varchar(30) references ITEM(itemname) not null,deptname varchar(30)

references DEPARTMENT(deptname) not null,constraint fk\_item\_itemname Foreign key(itemname) references ITEM(itemname));

\d sales

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INSERT DATA

in item

insert into item(itemname,itemtype, itemcolor) values('pocket knife-Nile','E','Brown');

select \* from item;

insert into item(itemname,itemtype, itemcolor) values('pocket knife-Avon','E','Brown');

select \* from item;

insert into item(itemname,itemtype, itemcolor) values('Compass','N','none');

insert into item(itemname,itemtype, itemcolor) values('Geo positioning system','N','none');

insert into item(itemname,itemtype, itemcolor) values('Elephant Polo stick','R','Bamboo');

insert into item(itemname,itemtype, itemcolor) values('Camel Saddle','R','Brown');

insert into item(itemname,itemtype, itemcolor) values('Sextant','N','none');

insert into item(itemname,itemtype, itemcolor) values('Map Measure','N','none');

insert into item(itemname,itemtype, itemcolor) values('Boots-snake proof','C','Green');

insert into item(itemname,itemtype, itemcolor) values('Pith Helmet','c','Khaki');

insert into item(itemname,itemtype, itemcolor) values('Hat-polar Explorer ','C','White');

insert into item(itemname,itemtype, itemcolor) values('Exploring in 10 Easy Lessons','B','none');

insert into item(itemname,itemtype, itemcolor) values('Hammock','F','Khaki');

insert into item(itemname,itemtype, itemcolor) values('How to win Foreign Friends','B','none');

insert into item(itemname,itemtype, itemcolor) values('Map case','E','Brown');

insert into item(itemname,itemtype, itemcolor) values('Safari Chair','F','Khaki');

insert into item(itemname,itemtype, itemcolor) values('Safari cooking kit','F','Khaki');

insert into item(itemname,itemtype, itemcolor) values('Stetson','C','Black');

insert into item(itemname,itemtype, itemcolor) values('Tent-2 person','F','Khaki');

insert into item(itemname,itemtype, itemcolor) values('Tent-8 person','F','Khaki');

select \* from item

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in department

insert into department(deptname,deptphone, deptfloor,DeptMgrId) values('Management','34','5','1');

select \* from department;

insert into department(deptname,deptphone, deptfloor,DeptMgrId) values('Books','81','1','4');

select \* from department;

insert into department(deptname,deptphone, deptfloor,DeptMgrId) values('Clothes','24','2','4');

select \* from department;

insert into department(deptname,deptphone, deptfloor,DeptMgrId) values('Equipment','57','3','3');

select \* from department;

insert into department(deptname,deptphone, deptfloor,DeptMgrId) values('Furniture','14','4','3');

select \* from department;

insert into department(deptname,deptphone, deptfloor,DeptMgrId) values('Navigation','41','1','3');

select \* from department;

insert into department(deptname,deptphone, deptfloor,DeptMgrId) values('Recreation','29','2','4');

select \* from department;

insert into department(deptname,deptphone, deptfloor,DeptMgrId) values('Accounting','35','5','5');

select \* from department;

insert into department(deptname,deptphone, deptfloor,DeptMgrId) values('Purchesing','36','5','7');

select \* from department;

insert into department(deptname,deptphone, deptfloor,DeptMgrId) values('Personnel','37','5','9');

select \* from department;

insert into department(deptname,deptphone, deptfloor,DeptMgrId) values('Marketing','38','5','2');

select \* from department;

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in EMP

insert into EMP(empno,empname, empsalary,bossno,deptname) values('1','Alice','75000','0','management');

select \* from department;

insert into EMP(empno,empname, empsalary,bossno,deptname) values('2','Ned','45000','1','Marketing');

insert into EMP(empno,empname, empsalary,bossno,deptname) values('3','Andrew','25000','2','Marketing');

insert into EMP(empno,empname, empsalary,bossno,deptname) values('4','Clare','22000','2','Marketing');

select \* from department;

insert into EMP(empno,empname, empsalary,bossno,deptname) values('5','Todd','38000','1','Accounting');

insert into EMP(empno,empname, empsalary,bossno,deptname) values('6','Nancy','22000','5','Accounting');

insert into EMP(empno,empname, empsalary,bossno,deptname) values('7','Brier','43000','1','Purchesing');

insert into EMP(empno,empname, empsalary,bossno,deptname) values('8','Sarah','56000','7','Purchesing');

select \* from department;

insert into EMP(empno,empname, empsalary,bossno,deptname) values('9','Sophile','35000','1','Personnel');

insert into EMP(empno,empname, empsalary,bossno,deptname) values('10','Sanjay','15000','3','Navigation');

insert into EMP(empno,empname, empsalary,bossno,deptname) values('11','Rita','15000','4','Books');

insert into EMP(empno,empname, empsalary,bossno,deptname) values('12','Gigi','16000','4','Clothes');

select \* from department;

insert into EMP(empno,empname, empsalary,bossno,deptname) values('13','Maggie','11000','4','Clothes');

insert into EMP(empno,empname, empsalary,bossno,deptname) values('14','Paul','15000','3','Equipment');

insert into EMP(empno,empname, empsalary,bossno,deptname) values('15','James','15000','3','Equipment');

insert into EMP(empno,empname, empsalary,bossno,deptname) values('16','Pat','15000','3','Furniture');

select \* from department;

insert into EMP(empno,empname, empsalary,bossno,deptname) values('17','Mark','15000','3','Recreation');

select \* from department;

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in sales

insert into sales(salesno,saleqty,itemname,deptname)values('101','2','Boots-snake proof','Clothes');

select \* from sales;

insert into sales(salesno,saleqty,itemname,deptname)values('102','1','Pith Helmet','Clothes');

insert into sales(salesno,saleqty,itemname,deptname)values('103','1','Sextant','Navigation');

insert into sales(salesno,saleqty,itemname,deptname)values('104','3','Hat-polar Explorer ','Clothes');

insert into sales(salesno,saleqty,itemname,deptname)values('105','5','Pith Helmet','Equipment');

insert into sales(salesno,saleqty,itemname,deptname)values('106','2','pocket knife-Nile','Clothes');

insert into sales(salesno,saleqty,itemname,deptname)values('107','3','pocket knife-Nile','Recreation');

insert into sales(salesno,saleqty,itemname,deptname)values('108','1','Compass','Navigation');

insert into sales(salesno,saleqty,itemname,deptname)values('109','2','Geo positioning system','Navigation');

insert into sales(salesno,saleqty,itemname,deptname)values('110','5','Map Measure','Navigation');

insert into sales(salesno,saleqty,itemname,deptname)values('111','1','Geo positioning system','Books');

insert into sales(salesno,saleqty,itemname,deptname)values('112','1','Sextant','Books');

insert into sales(salesno,saleqty,itemname,deptname)values('113','3','pocket Knife-Nile','Books');

insert into sales(salesno,saleqty,itemname,deptname)values('114','1','pocket knife-Nile','Navigation');

insert into sales(salesno,saleqty,itemname,deptname)values('115','1','pocket knife-Nile','Equipment');

insert into sales(salesno,saleqty,itemname,deptname)values('116','1','Sextant','Clothes');

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