```sql
create database Employees_Assignment1

use Employees_Assignment1

sp_help EMP
sp_help DEPARTMENT
sp_help SALES
sp_help ITEM

drop database Employees_Assignment1

create table EMP(empno int identity(1,1) constraint emp_key primary key,
Empname varchar(20),Empsalary money, Deptname varchar(20) null ,
Bossno int null constraint fk_empno foreign key references EMP(empno))

create table DEPARTMENT(deptname varchar(20) constraint pk_deptname primary key,
Deptfloor int, Deptphone int, Mgrid int constraint fk_mgrid
foreign key references EMP(empno) null)

INSERT INTO EMP (Empname, Empsalary, Deptname,Bossno)
VALUES
('Alice', 75000, 'Management', null),
('Ned', 45000, 'Marketing', 1),
('Andrew', 25000, 'Marketing', 2),
('Clare', 22000, 'Marketing', 2),
('Todd', 38000, 'Accounting', 1),
('Nancy', 22000, 'Accounting', 5),
('Brier', 43000, 'Purchasing', 1),
('Sarah', 56000, 'Purchasing', 7),
('Sophile', 35000, 'Personnel', 1),
('Sanjay', 15000, 'Navigation', 3),
('Rita', 15000, 'Books', 4),
('Gigi', 16000, 'Clothes', 4),
('Maggie', 11000, 'Clothes', 4),
('Paul', 15000, 'Equipment', 3),
('James', 15000, 'Equipment', 3),
('Pat', 15000, 'Furniture', 3),
('Mark', 15000, 'Recreation', 3)

select * from EMP

INSERT INTO DEPARTMENT (Deptname, Deptfloor, Deptphone, MgrId)
VALUES
('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)

select * from DEPARTMENT

alter table EMP
add constraint FK_Emp_Department
foreign key (deptname)
references DEPARTMENT (deptname)

create table SALES(salesno int identity(101,1) constraint pk_salesno primary key,
Saleqty int,itemname varchar(30), Deptname varchar(20) constraint fk_deptname
foreign key references DEPARTMENT(deptname))

create table ITEM(Itemname varchar(30) constraint pk_itemname primary key,
itemtype char(1), itemcolor varchar(10) null)
```
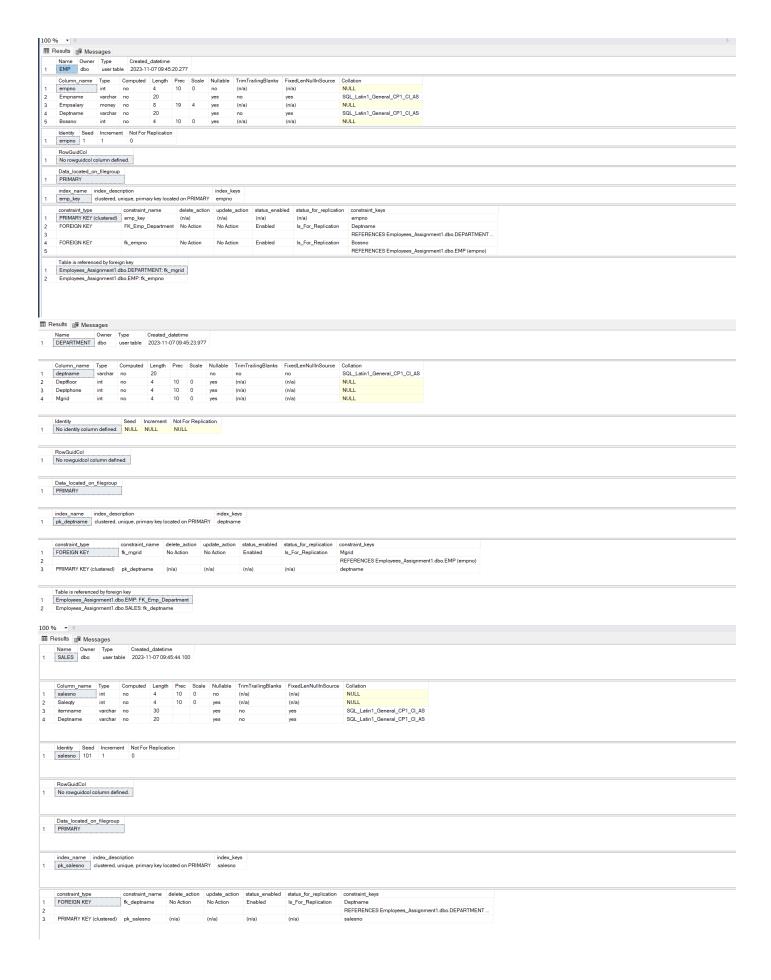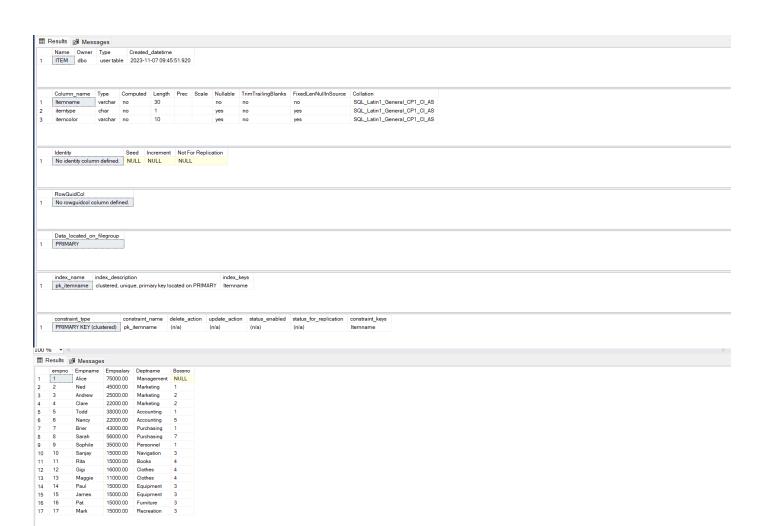
```sql
INSERT INTO SALES (Saleqty, itemname, Deptname)
VALUES
(2, 'Boots-snake proof', 'Clothes'),
(1, 'Pith Helmet', 'Clothes'),
(1, 'Sextant', 'Navigation'),
(3, 'Hat-polar Explorer', 'Clothes'),
(5, 'Pith Helmet', 'Equipment'),
(2, 'Pocket Knife-Nile', 'Clothes'),
(3, 'Pocket Knife-Nile', 'Recreation'),
(1, 'Compass', 'Navigation'),
(2, 'Geo positioning system', 'Navigation'),
(5, 'Map Measure', 'Navigation'),
(1, 'Geo positioning system', 'Books'),
(1, 'Sextant', 'Books'),
(3, 'Pocket Knife-Nile', 'Books'),
(1, 'Pocket Knife-Nile', 'Navigation'),
(1, 'Pocket Knife-Nile', 'Equipment'),
(1, 'Sextant', 'Clothes'),
(1, 'Equipment', 'Recreation'),
(1, 'Recreation', 'Furniture'),
(1, 'Furniture', 'Navigation'),
(1, 'Pocket Knife-Nile', NULL),
(1, 'Exploring in 10 easy lessons', 'Books'),
(1, 'How to win foreign friends', NULL),
(1, 'Compass', NULL),
(1, 'Pith Helmet', NULL),
(1, 'Elephant Polo stick', 'Recreation'),
(1, 'Camel Saddle', 'Recreation')


select * from SALES

INSERT INTO ITEM (Itemname, itemtype, itemcolor)
VALUES
('Pocket Knife-Nile', 'E', 'Brown'),
('Pocket Knife-Avon', 'E', 'Brown'),
('Compass', 'N', NULL),
('Geo positioning system', 'N', NULL),
('Elephant Polo stick', 'R', 'Bamboo'),
('Camel Saddle', 'R', 'Brown'),
('Sextant', 'N', NULL),
('Map Measure', 'N', NULL),
('Boots-snake proof', 'C', 'Green'),
('Pith Helmet', 'C', 'Khaki'),
('Hat-polar Explorer', 'C', 'White'),
('Exploring in 10 Easy Lessons', 'B', NULL),
('Hammock', 'F', 'Khaki'),
('How to win Foreign Friends', 'B', NULL),
('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')

select * from ITEM
```

100 % ▼

Results | Messages

EMP table

	Name	Owner	Type	Created_datetime
1	EMP	dbo	user table	2023-11-07 09:45:20.277

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	empno	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	Empname	varchar	no	20			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
3	Empsalary	money	no	8	19	4	yes	(n/a)	(n/a)	NULL
4	Deptname	varchar	no	20			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
5	Bossno	int	no	4	10	0	yes	(n/a)	(n/a)	NULL

	Identity	Seed	Increment	Not For Replication
1	empno	1	1	0

	RowGuidCol
1	No rowguidcol column defined.

	Data_located_on_filegroup
1	PRIMARY

	index_name	index_description	index_keys
1	emp_key	clustered, unique, primary key located on PRIMARY	empno

	constraint_type	constraint_name	delete_action	update_action	status_enabled	status_for_replication	constraint_keys
1	PRIMARY KEY (clustered)	emp_key	(n/a)	(n/a)	(n/a)	(n/a)	empno
2	FOREIGN KEY	FK_Emp_Department	No Action	No Action	Enabled	Is_For_Replication	Deptname
3							REFERENCES Employees_Assignment1.dbo.DEPARTMENT ...
4	FOREIGN KEY	fk_empno		No Action	No Action	Enabled	Is_For_Replication	Bossno
5							REFERENCES Employees_Assignment1.dbo.EMP (empno)

	Table is referenced by foreign key
1	Employees_Assignment1.dbo.DEPARTMENT: fk_mgrid
2	Employees_Assignment1.dbo.EMP: fk_empno

Results | Messages

DEPARTMENT table

	Name	Owner	Type	Created_datetime
1	DEPARTMENT	dbo	user table	2023-11-07 09:45:23.977

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	deptname	varchar	no	20			no	no	no	SQL_Latin1_General_CP1_CI_AS
2	Deptfloor	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
3	Deptphone	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
4	Mgrid	int	no	4	10	0	yes	(n/a)	(n/a)	NULL

	Identity	Seed	Increment	Not For Replication
1	No identity column defined.	NULL	NULL	NULL

	RowGuidCol
1	No rowguidcol column defined.

	Data_located_on_filegroup
1	PRIMARY

	index_name	index_description	index_keys
1	pk_deptname	clustered, unique, primary key located on PRIMARY	deptname

	constraint_type	constraint_name	delete_action	update_action	status_enabled	status_for_replication	constraint_keys
1	FOREIGN KEY	fk_mgrid	No Action	No Action	Enabled	Is_For_Replication	Mgrid
2							REFERENCES Employees_Assignment1.dbo.EMP (empno)
3	PRIMARY KEY (clustered)	pk_deptname	(n/a)	(n/a)	(n/a)	(n/a)	deptname

	Table is referenced by foreign key
1	Employees_Assignment1.dbo.EMP: FK_Emp_Department
2	Employees_Assignment1.dbo.SALES: fk_deptname

100 % ▼

Results | Messages

SALES table

	Name	Owner	Type	Created_datetime
1	SALES	dbo	user table	2023-11-07 09:45:44.100

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	salesno	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	Saleqty	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
3	itemname	varchar	no	30			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
4	Deptname	varchar	no	20			yes	no	yes	SQL_Latin1_General_CP1_CI_AS

	Identity	Seed	Increment	Not For Replication
1	salesno	101	1	0

	RowGuidCol
1	No rowguidcol column defined.

	Data_located_on_filegroup
1	PRIMARY

	index_name	index_description	index_keys
1	pk_salesno	clustered, unique, primary key located on PRIMARY	salesno

	constraint_type	constraint_name	delete_action	update_action	status_enabled	status_for_replication	constraint_keys
1	FOREIGN KEY	fk_deptname	No Action	No Action	Enabled	Is_For_Replication	Deptname
2							REFERENCES Employees_Assignment1.dbo.DEPARTMENT ...
3	PRIMARY KEY (clustered)	pk_salesno	(n/a)	(n/a)	(n/a)	(n/a)	salesno

Results | Messages

	Name	Owner	Type	Created_datetime
1	ITEM	dbo	user table	2023-11-07 09:45:51.920

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	Itemname	varchar	no	30			no	no	no	SQL_Latin1_General_CP1_CI_AS
2	itemtype	char	no	1			yes	no	yes	SQL_Latin1_General_CP1_CI_AS
3	itemcolor	varchar	no	10			yes	no	yes	SQL_Latin1_General_CP1_CI_AS

	Identity	Seed	Increment	Not For Replication
1	No identity column defined.	NULL	NULL	NULL

	RowGuidCol
1	No rowguidcol column defined.

	Data_located_on_filegroup
1	PRIMARY

	index_name	index_description	index_keys
1	pk_itemname	clustered, unique, primary key located on PRIMARY	Itemname

	constraint_type	constraint_name	delete_action	update_action	status_enabled	status_for_replication	constraint_keys
1	PRIMARY KEY (clustered)	pk_itemname	(n/a)	(n/a)	(n/a)	(n/a)	Itemname

100 %

Results | Messages

	empno	Empname	Empsalary	Deptname	Bossno
1	1	Alice	75000.00	Management	NULL
2	2	Ned	45000.00	Marketing	1
3	3	Andrew	25000.00	Marketing	2
4	4	Clare	22000.00	Marketing	2
5	5	Todd	38000.00	Accounting	1
6	6	Nancy	22000.00	Accounting	5
7	7	Brier	43000.00	Purchasing	1
8	8	Sarah	56000.00	Purchasing	7
9	9	Sophile	35000.00	Personnel	1
10	10	Sanjay	15000.00	Navigation	3
11	11	Rita	15000.00	Books	4
12	12	Gigi	16000.00	Clothes	4
13	13	Maggie	11000.00	Clothes	4
14	14	Paul	15000.00	Equipment	3
15	15	James	15000.00	Equipment	3
16	16	Pat	15000.00	Furniture	3
17	17	Mark	15000.00	Recreation	3

100 %

Results | Messages

	deptname	Deptfloor	Deptphone	Mgrid
1	Accounting	5	35	5
2	Books	1	81	4
3	Clothes	2	24	4
4	Equipment	3	57	3
5	Furniture	4	14	3
6	Management	5	34	1
7	Marketing	5	38	2
8	Navigation	1	41	3
9	Personnel	5	37	9
10	Purchasing	5	36	7
11	Recreation	2	29	4

Results | Messages

	salesno	Saleqty	itemname	Deptname
1	101	2	Boots-snake proof	Clothes
2	102	1	Pith Helmet	Clothes
3	103	1	Sextant	Navigation
4	104	3	Hat-polar Explorer	Clothes
5	105	5	Pith Helmet	Equipment
6	106	2	Pocket Knife-Nile	Clothes
7	107	3	Pocket Knife-Nile	Recreation
8	108	1	Compass	Navigation
9	109	2	Geo positioning system	Navigation
10	110	5	Map Measure	Navigation
11	111	1	Geo positioning system	Books
12	112	1	Sextant	Books
13	113	3	Pocket Knife-Nile	Books
14	114	1	Pocket Knife-Nile	Navigation
15	115	1	Pocket Knife-Nile	Equipment
16	116	1	Sextant	Clothes
17	117	1	Equipment	Recreation
18	118	1	Recreation	Furniture
19	119	1	Furniture	Navigation
20	120	1	Pocket Knife-Nile	NULL
21	121	1	Exploring in 10 easy lessons	Books
22	122	1	How to win foreign friends	NULL
23	123	1	Compass	NULL
24	124	1	Pith Helmet	NULL
25	125	1	Elephant Polo stick	Recreation
26	126	1	Camel Saddle	Recreation

Results | Messages

	Itemname	itemtype	itemcolor
1	Boots-snake proof	C	Green
2	Camel Saddle	R	Brown
3	Compass	N	NULL
4	Elephant Polo stick	R	Bamboo
5	Exploring in 10 Easy Lessons	B	NULL
6	Geo positioning system	N	NULL
7	Hammock	F	Khaki
8	Hat-polar Explorer	C	White
9	How to win Foreign Friends	B	NULL
10	Map case	E	Brown
11	Map Measure	N	NULL
12	Pith Helmet	C	Khaki
13	Pocket Knife-Avon	E	Brown
14	Pocket Knife-Nile	E	Brown
15	Safari Chair	F	Khaki
16	Safari cooking kit	F	Khaki
17	Sextant	N	NULL
18	Stetson	C	Black
19	Tent - 2 person	F	Khaki
20	Tent -8 person	F	Khaki