

Employee		Project		Supervisor	AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc		ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clark	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106
					COMP354	106
					COMP231	107
					COMP353	107
					COMP278	110
					COMP354	110
					COMP354	112
					COMP453	112

Employee		Project		Supervisor	AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc		ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clark	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106

COMP354	106
COMP231	107
COMP353	107
COMP278	110
COMP354	110
COMP354	112
COMP453	112

Relations Present

Employee

<u>EmpNo</u>	CHAR(3)
EmpName	VARCHAR(12)

Project

<u>ProjNo</u>	CHAR(7)
ProjDesc	VARCHAR(20)
Supervisor	CHAR(3)

AssignedTo

<u>ProjNo</u>	CHAR(7)
<u>EmpNo</u>	CHAR(3)

Employee		Project		Supervisor	AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc		ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clark	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106
					COMP354	106
					COMP231	107
					COMP353	107
					COMP278	110
					COMP354	110
					COMP354	112
					COMP453	112

Relations Present

Employee

<u>EmpNo</u>	CHAR(3)
EmpName	VARCHAR(12)

Project

<u>ProjNo</u>	CHAR(7)
ProjDesc	VARCHAR(20)
Supervisor	CHAR(3)

AssignedTo

<u>ProjNo</u>	CHAR(7)
<u>EmpNo</u>	CHAR(3)

Employee		Project			AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc	Supervisor	ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clerk	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106
					COMP354	106
					COMP231	107
					COMP353	107
					COMP278	110
					COMP354	110
					COMP354	112
					COMP453	112

Relations Present

Employee

EmpNo CHAR(3)
EmpName VARCHAR(12)

Project

ProjNo CHAR(7)
ProjDesc VARCHAR(20)
Supervisor CHAR(3)

AssignedTo

ProjNo CHAR(7)
EmpNo CHAR(3)

Employee		Project			AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc	Supervisor	ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clerk	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106
					COMP354	106
					COMP231	107
					COMP353	107
					COMP278	110
					COMP354	110
					COMP354	112
					COMP453	112

Relations Present

Employee

EmpNo

CHAR(3)

EmpName

VARCHAR(12)

Project

ProjNo

CHAR(7)

ProjDesc

VARCHAR(20)

Supervisor

CHAR(3)

Supervisor attribute is a **foreign key** referencing EmpNo, the of Employee

AssignedTo

ProjNo

CHAR(7)

EmpNo

CHAR(3)

Employee		Project		Supervisor	AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc		ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clark	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106

COMP354	106
COMP231	107
COMP353	107
COMP278	110
COMP354	110
COMP354	112
COMP453	112

Relations Present

Employee

<u>EmpNo</u>	CHAR(3)
EmpName	VARCHAR(12)

Project

<u>ProjNo</u>	CHAR(7)
ProjDesc	VARCHAR(20)
Supervisor	CHAR(3)

Foreign key references Employee(EmpNo)

AssignedTo

<u>ProjNo</u>	CHAR(7)
<u>EmpNo</u>	CHAR(3)

Employee		Project		Supervisor	AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc		ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clark	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106

COMP354	106
COMP231	107
COMP353	107
COMP278	110
COMP354	110
COMP354	112
COMP453	112

Relations Present

Employee

<u>EmpNo</u>	CHAR(3)
EmpName	VARCHAR(12)

Project

<u>ProjNo</u>	CHAR(7)	Foreign key references Employee(EmpNo)
ProjDesc	VARCHAR(20)	
Supervisor	CHAR(3)	

AssignedTo

<u>ProjNo</u>	CHAR(7)
<u>EmpNo</u>	CHAR(3)

Employee		Project		Supervisor	AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc		ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clark	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106

Relations Present

Employee

<u>EmpNo</u>	CHAR(3)
EmpName	VARCHAR(12)

Project

<u>ProjNo</u>	CHAR(7)
ProjDesc	VARCHAR(20)
Supervisor	CHAR(3)

Foreign key references Employee(EmpNo)

AssignedTo

<u>ProjNo</u>	CHAR(7)
<u>EmpNo</u>	CHAR(3)

Employee		Project		Supervisor	AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc		ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clark	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106

Relations Present

Employee

<u>EmpNo</u>	CHAR(3)
EmpName	VARCHAR(12)

Project

<u>ProjNo</u>	CHAR(7)	Foreign key references Employee(EmpNo)
ProjDesc	VARCHAR(20)	
Supervisor	CHAR(3)	

AssignedTo

<u>ProjNo</u>	CHAR(7)	Foreign key references Project(ProjNo)
<u>EmpNo</u>	CHAR(3)	

Employee		Project		Supervisor	AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc		ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clark	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106

COMP354	106
COMP231	107
COMP353	107
COMP278	110
COMP354	110
COMP354	112
COMP453	112

Relations Present

Employee

<u>EmpNo</u>	CHAR(3)
EmpName	VARCHAR(12)

Project

<u>ProjNo</u>	CHAR(7)	
ProjDesc	VARCHAR(20)	
Supervisor	CHAR(3)	Foreign key references Employee(EmpNo)

AssignedTo

<u>ProjNo</u>	CHAR(7)	Foreign key references Project(ProjNo)
<u>EmpNo</u>	CHAR(3)	

Employee		Project			AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc	Supervisor	ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clark	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106

Relations Present

Employee

EmpNo CHAR(3)
EmpName VARCHAR(12)

Project

ProjNo CHAR(7)
ProjDesc VARCHAR(20)
Supervisor CHAR(3) Foreign key references Employee(EmpNo)

AssignedTo

ProjNo CHAR(7) Foreign key references Project(ProjNo)
EmpNo CHAR(3)

Employee		Project			AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc	Supervisor	ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clark	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106
					COMP354	106
					COMP231	107
					COMP353	107
					COMP278	110
					COMP354	110
					COMP354	112
					COMP453	112

Relations Present

Employee

EmpNo	CHAR(3)
EmpName	VARCHAR(12)

Project

ProjNo	CHAR(7)	
ProjDesc	VARCHAR(20)	
Supervisor	CHAR(3)	Foreign key references Employee(EmpNo)

AssignedTo

<u>ProjNo</u>	CHAR(7)	Foreign key references Project(ProjNo)
<u>EmpNo</u>	CHAR(3)	Foreign key references Employee(EmpNo)

Employee		Project		Supervisor	AssignedTo	
EmpNo	EmpName	ProjNo	ProjDesc		ProjNo	EmpNo
101	Jones	COMP231	Mobile App	107	COMP453	101
103	Smith	COMP278	Web Service	110	COMP354	103
104	Clark	COMP353	Database	104	COMP353	104
106	Byron	COMP354	OS	110	COMP453	104
107	Evans	COMP453	Database	101	COMP231	106
110	Drew				COMP278	106
112	Smith				COMP353	106

COMP354	106
COMP231	107
COMP353	107
COMP278	110
COMP354	110
COMP354	112
COMP453	112

Relations Present

Employee

<u>EmpNo</u>	CHAR(3)
EmpName	VARCHAR(12)

Project

<u>ProjNo</u>	CHAR(7)	
ProjDesc	VARCHAR(20)	
Supervisor	CHAR(3)	Foreign key references Employee(EmpNo)

AssignedTo

<u>ProjNo</u>	CHAR(7)	Foreign key references Project(ProjNo)
<u>EmpNo</u>	CHAR(3)	Foreign key references Employee(EmpNo)

Relations Present

Salesperson

<u>Name</u>	VARCHAR20)
Age	INT
Salary	INT

Customer

<u>Name</u>	VARCHAR(20)
City	VARCHAR(15)

Order

<u>Number</u>	INT
Salesperson	VARCHAR(20)
Customer	VARCHAR(20)
Amount	INT

Salesperson			Customer	
Name	Age	Salary	Name	City
Abel	63	120000	Abernathy	Miami
Baker	38	42000	Broadway	Charlotte
Jones	22	36000	Office Pro	Charleston
Murphy	42	50000	Amalgamated	Charlotte
Smith	59	118000		
Abernathy	22	36000		
Order				
Number	Salesperson	Customer	Amount	
100	Abernathy	Abernathy	560	
200	Jones	Abernathy	2500	
300	Abel	Broadway	480	
400	Abel	Office Pro	2500	
500	Murphy	Amalgamated	6000	
600	Jones	Abernathy	7000	
700	Jones	Abernathy	2500	

Salesperson		
Name	Age	Salary
Abel	63	120000
Baker	38	42000
Jones	22	36000
Murphy	42	50000
Smith	59	118000
Abernathy	22	36000

Customer	City
Abernathy	Miami
Broadway	Charlotte
Office Pro	Charleston
Amalgamated	Charlotte

Order			
Number	Salesperson	Customer	Amount
100	Abernathy	Abernathy	560
200	Jones	Abernathy	2500
300	Abel	Broadway	480
400	Abel	Office Pro	2500
500	Murphy	Amalgamated	6000
600	Jones	Abernathy	7000
700	Jones	Abernathy	2500

Relations Present

Salesperson

<u>Name</u>	VARCHAR(20)
Age	INT
Salary	INT

Customer

<u>Name</u>	VARCHAR(20)
City	VARCHAR(15)

Order

<u>Number</u>	INT
Salesperson	VARCHAR(20)
Customer	VARCHAR(20)
Amount	INT

Salesperson		
Name	Age	Salary
Abel	63	120000
Baker	38	42000
Jones	22	36000
Murphy	42	50000
Smith	59	118000
Abernathy	22	36000

Customer	
Name	City
Abernathy	Miami
Broadway	Charlotte
Office Pro	Charleston
Amalgamated	Charlotte

Order			
Number	Salesperson	Customer	Amount
100	Abernathy	Abernathy	560
200	Jones	Abernathy	2500
300	Abel	Broadway	480
400	Abel	Office Pro	2500
500	Murphy	Amalgamated	6000
600	Jones	Abernathy	7000
700	Jones	Abernathy	2500

Relations Present

Salesperson

<u>Name</u>	VARCHAR(20)
Age	INT
Salary	INT

Customer

<u>Name</u>	VARCHAR(20)
City	VARCHAR(15)

Order

<u>Number</u>	INT
Salesperson	VARCHAR(20)
Customer	VARCHAR(20)
Amount	INT

Foreign key references Salesperson(Name)

Relations Present

Salesperson

<u>Name</u>	VARCHAR(20)
Age	INT
Salary	INT

Customer

<u>Name</u>	VARCHAR(20)
City	VARCHAR(15)

Order

<u>Number</u>	INT
Salesperson	VARCHAR(20)
Customer	VARCHAR(20)
Amount	INT

Foreign key references Salesperson(Name)

Salesperson

Name	Age	Salary
Abel	63	120000
Baker	38	42000
Jones	22	36000
Murphy	42	50000
Smith	59	118000
Abernathy	22	36000

Customer

Name	City
Abernathy	Miami
Broadway	Charlotte
Office Pro	Charleston
Amalgamated	Charlotte

Order

Number	Salesperson	Customer	Amount
100	Abernathy	Abernathy	560
200	Jones	Abernathy	2500
300	Abel	Broadway	480
400	Abel	Office Pro	2500
500	Murphy	Amalgamated	6000
600	Jones	Abernathy	7000
700	Jones	Abernathy	2500

Salesperson			Customer		
Name	Age	Salary	Name		City
Abel	63	120000	Abernathy		Miami
Baker	38	42000	Broadway		Charlotte
Jones	22	36000	Office Pro		Charleston
Murphy	42	50000	Amalgamated		Charlotte
Smith	59	118000			
Abernathy	22	36000			

Order			
Number	Salesperson	Customer	Amount
100	Abernathy	Abernathy	560
200	Jones	Abernathy	2500
300	Abel	Broadway	480
400	Abel	Office Pro	2500
500	Murphy	Amalgamated	6000
600	Jones	Abernathy	7000
700	Jones	Abernathy	2500

Relations Present

Salesperson

<u>Name</u>	VARCHAR(20)
Age	INT
Salary	INT

Customer

<u>Name</u>	VARCHAR(20)
City	VARCHAR(15)

Order

<u>Number</u>	INT
Salesperson	VARCHAR(20)
Customer	VARCHAR(20)
Amount	INT

Foreign key references Salesperson(Name)

Salesperson			Customer		
Name	Age	Salary	Name		City
Abel	63	120000	Abernathy		Miami
Baker	38	42000	Broadway		Charlotte
Jones	22	36000	Office Pro		Charleston
Murphy	42	50000	Amalgamated		Charlotte
Smith	59	118000			
Abernathy	22	36000			

Order			
Number	Salesperson	Customer	Amount
100	Abernathy	Abernathy	560
200	Jones	Abernathy	2500
300	Abel	Broadway	480
400	Abel	Office Pro	2500
500	Murphy	Amalgamated	6000
600	Jones	Abernathy	7000
700	Jones	Abernathy	2500

Relations Present

Salesperson

<u>Name</u>	VARCHAR(20)
Age	INT
Salary	INT

Customer

<u>Name</u>	VARCHAR(20)
City	VARCHAR(15)

Order

<u>Number</u>	INT
Salesperson	VARCHAR(20)
Customer	VARCHAR(20)
Amount	INT

Foreign key references Salesperson(Name)

Foreign key references Customer(Name)

Relations Present

Salesperson

<u>Name</u>	VARCHAR(20)
Age	INT
Salary	INT

Customer

<u>Name</u>	VARCHAR(20)
City	VARCHAR(15)

Order

<u>Number</u>	INT	
Salesperson	VARCHAR(20)	Foreign key references Salesperson(Name)
Customer	VARCHAR(20)	Foreign key references Customer(Name)
Amount	INT	

Salesperson

Name	Age	Salary
Abel	63	120000
Baker	38	42000
Jones	22	36000
Murphy	42	50000
Smith	59	118000
Abernathy	22	36000

Customer

Name	City
Abernathy	Miami
Broadway	Charlotte
Office Pro	Charleston
Amalgamated	Charlotte

Order

Number	Salesperson	Customer	Amount
100	Abernathy	Abernathy	560
200	Jones	Abernathy	2500
300	Abel	Broadway	480
400	Abel	Office Pro	2500
500	Murphy	Amalgamated	6000
600	Jones	Abernathy	7000
700	Jones	Abernathy	2500