

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

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		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

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		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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

AssignedTo

ProjNo	CHAR(7)	Primary key?
EmpNo	CHAR(3)	

Employee		Project		Supervisor	AssignedTo	EmpNo
EmpNo	EmpName	ProjNo	ProjDesc		ProjNo	
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)	Primary key
EmpName	VARCHAR(12)	

Project

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

AssignedTo

ProjNo	CHAR(7)	Primary key?
EmpNo	CHAR(3)	

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

AssignedTo	
ProjNo	EmpNo
COMP453	101
COMP354	103
COMP353	104
COMP453	104
COMP231	106
COMP278	106
COMP353	106
COMP354	106
COMP231	107
COMP353	107
COMP278	110
COMP354	110
COMP354	112
COMP453	112

ProjNo can't be primary key

Relations Present

Employee

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

AssignedTo

ProjNo	CHAR(7)	Primary key?
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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

AssignedTo

ProjNo	CHAR(7)	
EmpNo	CHAR(3)	Primary key?

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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

AssignedTo

ProjNo	CHAR(7)	
EmpNo	CHAR(3)	Primary key?

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

EmpNo can't be primary key

Relations Present

Employee

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

AssignedTo

ProjNo	CHAR(7)	
EmpNo	CHAR(3)	Primary key?

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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

AssignedTo

ProjNo	CHAR(7)	} Can both attributes together be a compound primary key?
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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

AssignedTo

ProjNo	CHAR(7)	} Can both attributes together be a compound primary key? Yes!
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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

AssignedTo

ProjNo	CHAR(7)	} Both attributes together are a compound primary key
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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

AssignedTo

ProjNo	CHAR(7)	One notation – <u>underline</u> the attributes that together are a compound primary key
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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

AssignedTo

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

Alternative notation - a separate entry indicating the primary key and the attribute(s) that comprise it primary key

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

EmpNo	CHAR(3)	Primary key
EmpName	VARCHAR(12)	

Project

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

AssignedTo

ProjNo	CHAR(7)
EmpNo	CHAR(3)
Primary key(ProjNo,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

EmpNo CHAR(3)
EmpName VARCHAR(12)
Primary key(EmpNo)

Project

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

AssignedTo

ProjNo CHAR(7)
EmpNo CHAR(3)
Primary key(ProjNo,EmpNo)

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

Name	VARCHAR20)
Age	INT
Salary	INT

Customer

Name	VARCHAR(20)
City	VARCHAR(15)

Order

Number	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

Name	VARCHAR(20)
Age	INT
Salary	INT

Customer

Name	VARCHAR(20)
City	VARCHAR(15)

Order

Number	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

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

Name	VARCHAR(20)
Age	INT
Salary	INT

Customer

Name	VARCHAR(20)
City	VARCHAR(15)

Order

Number	INT
Salesperson	VARCHAR(20)
Customer	VARCHAR(20)
Amount	INT

Based on the data shown, this could be a primary key

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

Name	VARCHAR(20)
Age	INT
Salary	INT

Customer

Name	VARCHAR(20)
City	VARCHAR(15)

Order

Number	INT
Salesperson	VARCHAR(20)
Customer	VARCHAR(20)
Amount	INT

Based on the data shown, this could be a primary key
Is this a good idea?

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

Name	VARCHAR(20)
Age	INT
Salary	INT

Customer

Name	VARCHAR(20)
City	VARCHAR(15)

Order

Number	INT
Salesperson	VARCHAR(20)
Customer	VARCHAR(20)
Amount	INT

Based on the data shown, this could be a primary key
Is this a good idea?
If chosen as the primary key, what does this mean?

Relations Present

Salesperson

Name	VARCHAR(20) Primary
Age	INT
Salary	INT

Customer

Name	VARCHAR(20)
City	VARCHAR(15)

Order

Number	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	

We'll do it anyway

Relations Present

Salesperson

Name	VARCHAR20) Primary
Age	INT
Salary	INT

Customer

Name	VARCHAR(20)
City	VARCHAR(15)

Order

Number	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

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

Name	VARCHAR20) Primary
Age	INT
Salary	INT

Customer

Name	VARCHAR(20)
City	VARCHAR(15)

Same issue as with Salesperson

Order

Number	INT
Salesperson	VARCHAR(20)
Customer	VARCHAR(20)
Amount	INT

Relations Present

Salesperson

Name	VARCHAR(20) Primary
Age	INT
Salary	INT

Customer

Name	VARCHAR(20) Primary
City	VARCHAR(15)

Order

Number	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

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

Customer

Name	City
Abernathy	Miami
Broadway	Charlotte
Office Pro	Charleston
Amalgamated	Charlotte

We'll do it anyway

Relations Present

Salesperson

Name	VARCHAR20) Primary
Age	INT
Salary	INT

Customer

Name	VARCHAR(20) Primary
City	VARCHAR(15)

Order

Number	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

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

Name	VARCHAR20) Primary
Age	INT
Salary	INT

Customer

Name	VARCHAR(20) Primary
City	VARCHAR(15)

Order

Number	INT	Can be a primary key
Salesperson	VARCHAR(20)	
Customer	VARCHAR(20)	
Amount	INT	

Relations Present

Salesperson

Name	VARCHAR20)	Primary
Age	INT	
Salary	INT	

Customer

Name	VARCHAR(20)	Primary
City	VARCHAR(15)	

Order

Number	INT	Primary
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	