

Supplier-Parts-DB

SNUM	SNAME	STATUS	CITY
S1	Smith	20	London
S2	Jones	10	Paris
S3	Blake	30	Paris
S4	Clark	20	London
S5	Adams	30	Athens

Supplier table

PNUM	PNAME	COLOUR	WEIGHT	CITY
P1	Nut	Red	12	London
P2	Bolt	Green	17	Paris
P3	Screw	Blue	17	Rome
P4	Screw	Red	14	London
P5	Cam	Blue	12	Paris
P6	Cog	Red	19	London

Part table

SNUM	PNUM	QTY
S1	P1	900
S2	P3	3100
S2	P5	100
S3	P3	200
S3	P4	500
S4	P6	600
S5	P1	100
S5	P2	300
S5	P3	200
S5	P4	800
S5	P5	1000
S5	P6	700

Supply table

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Creating Relation Schemas

```
CREATE TABLE Supplier (  
    SNUM char(5),  
    SNAME varchar(20) NOT Null unique,  
    STATUS number(2) default 0  
        check(STATUS ≥ 0),  
    CITY varchar(15),  
    primary key(SNUM))
```

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```
CREATE TABLE Part (  
    PNUM char(5),  
    PNAME varchar(20) NOT Null  
    COLOUR varchar(7) default 'Blue',  
    WEIGHT number(2) default 10  
        check(WEIGHT IS Null OR WEIGHT ≥ 10),  
    CITY varchar(15) default 'London',  
    primary key(PNUM))
```

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```
CREATE TABLE Supply (  
    SNUM char(5),  
    PNUM char(5),  
    QTY number(5) default '0'  
        check(QTY ≥ 0),  
    primary key(SNUM, PNUM),  
    foreign key(SNUM) references Supplier,  
    foreign key(PNUM) references Part)
```

Changing a Relation Schema

```
ALTER TABLE Supply ADD(  
    ORDERED number(5))
```

```
ALTER TABLE Supply MODIFY(  
    ORDERED number(4),  
    check(ORDERED ≥ 0))
```

```
ALTER TABLE Supply DROP(ORDERED)
```

```
DROP TABLE Supply
```