[N:M]

(1,1)

(1,N)

[1:N]

(1,1)

(0,N)

(0,N)

(1,M)

(0,M)

(1,N)

[N:M]

[1:N]

[N:M]

(1,N)

(1,M)

supply

suppliers

need

materials

manage

make

clients

pieces

orders

have

managers

clients (cod\_cli,phone,name,details)

orders (cod\_ord,cod\_cli,cod\_man,order\_date,deliver\_date,delivered,price,remarks)

managers (cod\_man,name,phone,details)

contain\_o\_p (cod\_ord,cod\_piece,quantity,remarks)

pieces (cod\_piece,plans,price,description)

need\_p\_m (cod\_piece,cod\_mat,quantity,remarks)

materials (cod\_mat,price,description)

supply\_m\_s (cod\_sup,cod\_mat,order\_date,deliver\_date,delivered,quantity,price\_t,price\_u,remarks)

suppliers (cod\_sup,phone,name,details)

CREATE DATABASE orders;

USE orders;

CREATE TABLE clients

(cod\_cli integer UNSIGNED PRIMARY KEY,

phone varchar(30),

name varchar(30),

details varchar(600));

CREATE TABLE managers

(cod\_man integer UNSIGNED PRIMARY KEY,

phone varchar(30),

name varchar(30),

details varchar(600));

CREATE TABLE suppliers

(cod\_sup integer UNSIGNED PRIMARY KEY,

phone varchar(30),

name varchar(30),

details varchar(600));

CREATE TABLE orders

(cod\_ord integer UNSIGNED PRIMARY KEY,

cod\_cli integer UNSIGNED,

cod\_man integer UNSIGNED,

order\_date date,

deliver\_date date,

delivered boolean,

price decimal(10,2),

remarks varchar(600));

CREATE TABLE contain\_o\_p

(cod\_ord integer UNSIGNED,

cod\_piece integer UNSIGNED,

quantity integer UNSIGNED,

remarks varchar(600),

PRIMARY KEY (cod\_ord,cod\_piece));

CREATE TABLE pieces

(cod\_piece integer UNSIGNED PRIMARY KEY,

plans varchar(30),

price decimal(10,2),

description varchar(600));

CREATE TABLE need\_p\_m

(cod\_piece integer UNSIGNED,

cod\_mat integer UNSIGNED,

quantity integer UNSIGNED,

remarks varchar(600),

PRIMARY KEY (cod\_mat,cod\_piece));

CREATE TABLE materials

(cod\_mat integer UNSIGNED PRIMARY KEY,

price decimal(10,2),

description varchar(600));

CREATE TABLE supply\_m\_s

(cod\_sup integer UNSIGNED,

cod\_mat integer UNSIGNED,

order\_date date,

deliver\_date date,

delivered boolean,

quantity integer UNSIGNED,

price\_u decimal(10,2),

price\_t decimal(10,2),

remarks varchar(600),

PRIMARY KEY (cod\_mat,cod\_sup,order\_date));

ALTER TABLE orders

ADD CONSTRAINT fk\_orders

FOREIGN KEY (cli\_cod)

REFERENCES clients(cli\_cod)

ON UPDATE CASCADE;

ALTER TABLE orders

ADD CONSTRAINT fk\_orders2

FOREIGN KEY (cod\_man)

REFERENCES managers(cod\_man)

ON UPDATE CASCADE;

ALTER TABLE contain\_o\_p

ADD CONSTRAINT fk\_contain\_o\_p

FOREIGN KEY (cod\_ord)

REFERENCES orders(cod\_ord)

ON UPDATE CASCADE;

ALTER TABLE contain\_o\_p

ADD CONSTRAINT fk\_contain\_o\_p2

FOREIGN KEY (cod\_piece)

REFERENCES pieces(cod\_piece)

ON UPDATE CASCADE;

ALTER TABLE need\_p\_m

ADD CONSTRAINT fk\_need\_p\_m

FOREIGN KEY (cod\_piece)

REFERENCES pieces(cod\_piece)

ON UPDATE CASCADE;

ALTER TABLE need\_p\_m

ADD CONSTRAINT fk\_need\_p\_m2

FOREIGN KEY (cod\_mat)

REFERENCES materials(cod\_mat)

ON UPDATE CASCADE;

ALTER TABLE supply\_m\_s

ADD CONSTRAINT fk\_supply\_m\_s

FOREIGN KEY (cod\_mat)

REFERENCES materials(cod\_mat)

ON UPDATE CASCADE;

ALTER TABLE supply\_m\_s

ADD CONSTRAINT fk\_supply\_m\_s2

FOREIGN KEY (cod\_sup)

REFERENCES suppliers(cod\_sup)

ON UPDATE CASCADE;