CREATE TABLE products(

id int(11) unsigned NOT NULL AUTO\_INCREMENT,

sku char(50) NOT NULL UNIQUE,

name varchar(50) NOT NULL,

price decimal(10,2) NOT NULL,

product\_type char(10) NOT NULL

CHECK ( product\_type IN ('DVD', 'Book', 'Furniture') ),

PRIMARY KEY(id),

INDEX(id)

);

CREATE TABLE DVD(

id int(11) unsigned NOT NULL AUTO\_INCREMENT,

product\_type char(10) DEFAULT 'DVD' NOT NULL CHECK (product\_type ='DVD-disk'),

size int NOT NULL,

PRIMARY KEY(id)

);

CREATE TABLE book(

id int(11) unsigned NOT NULL AUTO\_INCREMENT,

product\_type char(10) DEFAULT 'Book' NOT NULL CHECK (product\_type ='Book'),

weight int(50) NOT NULL,

PRIMARY KEY(id)

);

CREATE TABLE furniture(

id int(11) unsigned NOT NULL AUTO\_INCREMENT,

product\_type char(10) DEFAULT 'Furniture' NOT NULL CHECK (product\_type ='Furniture'),

dimensions varchar(25) NOT NULL,

PRIMARY KEY(id)

);

///////////////////////////////////////////////////////////////

ALTER TABLE dvd ADD CONSTRAINT dvd\_cons\_fk\_ref\_product FOREIGN KEY (id) REFERENCES products(id)

ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE book ADD CONSTRAINT book\_cons\_fk\_ref\_product FOREIGN KEY (id) REFERENCES products(id)

ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE furniture ADD CONSTRAINT furniture\_cons\_fk\_ref\_product FOREIGN KEY (id) REFERENCES products(id)

ON DELETE CASCADE ON UPDATE CASCADE;

//////

Inserting furniture type

INSERT INTO products(name, price,product\_type,sku) VALUES('chairDouble', '33', 'Furniture','hd-dd-ddh');

INSERT INTO furniture(id, dimensions) VALUES(

LAST\_INSERT\_ID(), '55x70x32'

);

/////

Inserting in book

INSERT INTO products(name, price,product\_type,sku) VALUES('advanced-html', '33', 'Book','hd-dd-ddh');

INSERT INTO book(id, weight) VALUES(

LAST\_INSERT\_ID(), '2'

);

///////

Inserting in dvd

INSERT INTO products(name, price,product\_type,sku) VALUES('tech-disk, '33', 'DVD','hd0-dd-ddh');

INSERT INTO dvd(id, size) VALUES(

LAST\_INSERT\_ID(), '1000'

);

///////////////////////

Reading products

////

First read dvd products

SELECT P.\* , D.size

FROM products P

INNER JOIN dvd D

ON P.id = D.id;

///////////

Read books

SELECT P.\* , B.weight

FROM products P

INNER JOIN book B

ON P.id = B.id;

//////////

Read furnitures

SELECT P.\* , F.dimensions

FROM products P

INNER JOIN furniture F

ON P.id = F.id;

///////////////////////

Read all products

SELECT P.\* , D.size, B.weight, F.dimensions

FROM products P

LEFT OUTER JOIN dvd D

ON P.id = D.id

LEFT OUTER JOIN book B

ON P.id = B.id

LEFT OUTER JOIN furniture F

ON P.id = F.id

ORDER BY P.id ASC;

////////////////////////

Delete product by id

DELETE FROM products WHERE id = '4';

////////////////////////////////////////////////////////