**create** **database** warehousedb;

**use** warehousedb;

**CREATE** **TABLE** Warehouses (

Code **INTEGER** **NOT** **NULL**,

Location **VARCHAR**(255) **NOT** **NULL** ,

Capacity **INTEGER** **NOT** **NULL**,

**PRIMARY** **KEY** (Code)

);

**CREATE** **TABLE** Boxes (

Code **CHAR**(4) **NOT** **NULL**,

Contents **VARCHAR**(255) **NOT** **NULL** ,

Value **REAL** **NOT** **NULL** ,

Warehouse **INTEGER** **NOT** **NULL**,

**PRIMARY** **KEY** (Code),

**FOREIGN** **KEY** (Warehouse) **REFERENCES** Warehouses(Code)

);

**INSERT** **INTO** Warehouses(Code,Location,Capacity) **VALUES**(1,'Chicago',3);

**INSERT** **INTO** Warehouses(Code,Location,Capacity) **VALUES**(2,'Chicago',4);

**INSERT** **INTO** Warehouses(Code,Location,Capacity) **VALUES**(3,'New York',7);

**INSERT** **INTO** Warehouses(Code,Location,Capacity) **VALUES**(4,'Los Angeles',2);

**INSERT** **INTO** Warehouses(Code,Location,Capacity) **VALUES**(5,'San Francisco',8);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('0MN7','Rocks',180,3);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('4H8P','Rocks',250,1);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('4RT3','Scissors',190,4);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('7G3H','Rocks',200,1);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('8JN6','Papers',75,1);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('8Y6U','Papers',50,3);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('9J6F','Papers',175,2);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('LL08','Rocks',140,4);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('P0H6','Scissors',125,1);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('P2T6','Scissors',150,2);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('TU55','Papers',90,5);

**select** \* **from** warehouses;

**select**\* **from** boxes;

#1

**select** \* **from** warehouses;

#2

**select** \* **from** boxes **where** value >150;

#3

**select** **distinct**(contents) **from** boxes;

#4

**select** **avg**(value) **from** boxes;

#5

**select** warehouse,**avg**(value) **from** boxes

**group** **by** warehouse;

#6

**select** warehouse,**avg**(value) **from** boxes

**group** **by** warehouse

**having** **avg**(value) >150;

#7

**select** boxes.code,location **from** warehouses **join** boxes

**on** boxes.warehouse=warehouses.code;

#8

**select** warehouse,**count**(\*) **from** boxes

**group** **by** warehouse;

#9

**SELECT** Warehouses.Code

**FROM** Warehouses **JOIN** Boxes **ON** Warehouses.Code = Boxes.Warehouse

**GROUP** **BY** Warehouses.code, Warehouses.Capacity

**HAVING** **Count**(Boxes.code) > Warehouses.Capacity;

#10

**select** boxes.code **from** boxes **left** **join** warehouses

**on** boxes.warehouse=warehouses.code

**where** location = "Chicago";

#11

**INSERT** **INTO** Warehouses(code,Location,Capacity)**VALUES** (6,'New York',3);

**select**\* **from** warehouses;

#12

**INSERT** **INTO** Boxes

**VALUES**('H5RT','Papers',200,2);

**select**\***from** boxes;

#13

**select** value-(value\*0.85) **from** boxes;

#14

**select** **avg**(value) **from** boxes;

**select** value - (value\*0.80) **from** boxes;

#15

**DELETE** **FROM** Boxes

**WHERE** Warehouse **IN**

(**SELECT** \* **FROM** (**SELECT** Code **FROM** Warehouses **WHERE** Capacity <

(**SELECT** **COUNT**(\*) **FROM** Boxes **WHERE** Warehouse = Warehouses.Code)) **AS** Bxs);