**create** **database** employees;

**use** employees;

**CREATE** **TABLE** Employee (

EmployeeID **INTEGER** **PRIMARY** **KEY**,

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

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

Salary **REAL** **NOT** **NULL**,

Remarks **VARCHAR**(255)

);

**CREATE** **TABLE** Planet (

PlanetID **INTEGER** **PRIMARY** **KEY**,

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

Coordinates **REAL** **NOT** **NULL**

);

**CREATE** **TABLE** Shipment (

ShipmentID **INTEGER** **PRIMARY** **KEY**,

**Date** **DATE**,

Manager **INTEGER** **NOT** **NULL**,

Planet **INTEGER** **NOT** **NULL**,

**FOREIGN** **KEY** (Manager) **REFERENCES** Employee(EmployeeID),

**FOREIGN** **KEY** (Planet) **REFERENCES** Planet(PlanetID)

);

**CREATE** **TABLE** Has\_Clearance (

Employee **INTEGER** **NOT** **NULL**,

Planet **INTEGER** **NOT** **NULL**,

**Level** **INTEGER** **NOT** **NULL**,

**PRIMARY** **KEY**(Employee, Planet),

**FOREIGN** **KEY** (Employee) **REFERENCES** Employee(EmployeeID),

**FOREIGN** **KEY** (Planet) **REFERENCES** Planet(PlanetID)

);

**CREATE** **TABLE** Client (

AccountNumber **INTEGER** **PRIMARY** **KEY**,

Name **VARCHAR**(255) **NOT** **NULL**

);

**CREATE** **TABLE** Package (

Shipment **INTEGER** **NOT** **NULL**,

PackageNumber **INTEGER** **NOT** **NULL**,

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

Weight **REAL** **NOT** **NULL**,

Sender **INTEGER** **NOT** **NULL**,

Recipient **INTEGER** **NOT** **NULL**,

**PRIMARY** **KEY**(Shipment, PackageNumber),

**FOREIGN** **KEY** (Shipment) **REFERENCES** Shipment(ShipmentID),

**FOREIGN** **KEY** (Sender) **REFERENCES** Client(AccountNumber),

**FOREIGN** **KEY** (Recipient) **REFERENCES** Client(AccountNumber)

);

**INSERT** **INTO** Client **VALUES**(1, 'Zapp Brannigan');

**INSERT** **INTO** Client **VALUES**(2, "Al Gore's Head");

**INSERT** **INTO** Client **VALUES**(3, 'Barbados Slim');

**INSERT** **INTO** Client **VALUES**(4, 'Ogden Wernstrom');

**INSERT** **INTO** Client **VALUES**(5, 'Leo Wong');

**INSERT** **INTO** Client **VALUES**(6, 'Lrrr');

**INSERT** **INTO** Client **VALUES**(7, 'John Zoidberg');

**INSERT** **INTO** Client **VALUES**(8, 'John Zoidfarb');

**INSERT** **INTO** Client **VALUES**(9, 'Morbo');

**INSERT** **INTO** Client **VALUES**(10, 'Judge John Whitey');

**INSERT** **INTO** Client **VALUES**(11, 'Calculon');

**INSERT** **INTO** Employee **VALUES**(1, 'Phillip J. Fry', 'Delivery boy', 7500.0, 'Not to be confused with the Philip J. Fry from Hovering Squid World 97a');

**INSERT** **INTO** Employee **VALUES**(2, 'Turanga Leela', 'Captain', 10000.0, **NULL**);

**INSERT** **INTO** Employee **VALUES**(3, 'Bender Bending Rodriguez', 'Robot', 7500.0, **NULL**);

**INSERT** **INTO** Employee **VALUES**(4, 'Hubert J. Farnsworth', 'CEO', 20000.0, **NULL**);

**INSERT** **INTO** Employee **VALUES**(5, 'John A. Zoidberg', 'Physician', 25.0, **NULL**);

**INSERT** **INTO** Employee **VALUES**(6, 'Amy Wong', 'Intern', 5000.0, **NULL**);

**INSERT** **INTO** Employee **VALUES**(7, 'Hermes Conrad', 'Bureaucrat', 10000.0, **NULL**);

**INSERT** **INTO** Employee **VALUES**(8, 'Scruffy Scruffington', 'Janitor', 5000.0, **NULL**);

**INSERT** **INTO** Planet **VALUES**(1, 'Omicron Persei 8', 89475345.3545);

**INSERT** **INTO** Planet **VALUES**(2, 'Decapod X', 65498463216.3466);

**INSERT** **INTO** Planet **VALUES**(3, 'Mars', 32435021.65468);

**INSERT** **INTO** Planet **VALUES**(4, 'Omega III', 98432121.5464);

**INSERT** **INTO** Planet **VALUES**(5, 'Tarantulon VI', 849842198.354654);

**INSERT** **INTO** Planet **VALUES**(6, 'Cannibalon', 654321987.21654);

**INSERT** **INTO** Planet **VALUES**(7, 'DogDoo VII', 65498721354.688);

**INSERT** **INTO** Planet **VALUES**(8, 'Nintenduu 64', 6543219894.1654);

**INSERT** **INTO** Planet **VALUES**(9, 'Amazonia', 65432135979.6547);

**INSERT** **INTO** Has\_Clearance **VALUES**(1, 1, 2);

**INSERT** **INTO** Has\_Clearance **VALUES**(1, 2, 3);

**INSERT** **INTO** Has\_Clearance **VALUES**(2, 3, 2);

**INSERT** **INTO** Has\_Clearance **VALUES**(2, 4, 4);

**INSERT** **INTO** Has\_Clearance **VALUES**(3, 5, 2);

**INSERT** **INTO** Has\_Clearance **VALUES**(3, 6, 4);

**INSERT** **INTO** Has\_Clearance **VALUES**(4, 7, 1);

**INSERT** **INTO** Shipment **VALUES**(1, '3004/05/11', 1, 1);

**INSERT** **INTO** Shipment **VALUES**(2, '3004/05/11', 1, 2);

**INSERT** **INTO** Shipment **VALUES**(3, **NULL**, 2, 3);

**INSERT** **INTO** Shipment **VALUES**(4, **NULL**, 2, 4);

**INSERT** **INTO** Shipment **VALUES**(5, **NULL**, 7, 5);

**INSERT** **INTO** Package **VALUES**(1, 1, 'Undeclared', 1.5, 1, 2);

**INSERT** **INTO** Package **VALUES**(2, 1, 'Undeclared', 10.0, 2, 3);

**INSERT** **INTO** Package **VALUES**(2, 2, 'A bucket of krill', 2.0, 8, 7);

**INSERT** **INTO** Package **VALUES**(3, 1, 'Undeclared', 15.0, 3, 4);

**INSERT** **INTO** Package **VALUES**(3, 2, 'Undeclared', 3.0, 5, 1);

**INSERT** **INTO** Package **VALUES**(3, 3, 'Undeclared', 7.0, 2, 3);

**INSERT** **INTO** Package **VALUES**(4, 1, 'Undeclared', 5.0, 4, 5);

**INSERT** **INTO** Package **VALUES**(4, 2, 'Undeclared', 27.0, 1, 2);

**INSERT** **INTO** Package **VALUES**(5, 1, 'Undeclared', 100.0, 5, 1);

#1

**select** client.name **from** client **join** package

**on** client.AccountNumber = package.Recipient

**where** package.weight = 1.5;

#2

**select** **sum**(package.weight) **as** "total weight" **from** client **join** package

**on** client.AccountNumber = Package.sender

**where** client.name = "Al Gore's Head";