--The JIBI-HIFI Database, version 1

--JB HI-FI have many store in Australia.

-- Through different entities, we can calculate different employee’s salary

--according to their individual sales amount. This goal can be achieved by SQL Queries.

--Also, for each employee, we can see which type of product they are good at to sell.

--For this reason, we can allocate different employee to sell product which they are good at.

--This database is a business-oriented. It helps us to connect different stores of JIBIHIFI.

DROP view employeesales CASCADE;

DROP table Employee CASCADE;

DROP table EmployeeCustomer CASCADE;

DROP table Customer CASCADE;

DROP table Product CASCADE;

DROP table Ordedproduct CASCADE;

DROP table CustomerOrder CASCADE;

DROP table Store CASCADE;

DROP table SalaryGrade CASCADE;

CREATE TABLE Store

(

StoreNumber integer NOT NULL,

StoreName text,

CONSTRAINT StorePK PRIMARY KEY (StoreNumber)

);

CREATE TABLE SalaryGrade

(

SalaryGradeIdentifier integer NOT NULL,

BasicSalary integer,

SubsidyRatio Decimal,

CONSTRAINT SalaryGradePK PRIMARY KEY (SalaryGradeIdentifier),

CONSTRAINT di\_table\_SalaryGrade\_SubsidyRatio CHECK

((SubsidyRatio >= 0) AND (SubsidyRatio <=1))

);

CREATE TABLE Employee

(

Employee\_ID integer,

StoreNumber integer,

SalaryGradeIdentifier integer,

EmployeeName text NOT NULL,

BossNumber integer,

CONSTRAINT EmployeePK PRIMARY KEY (Employee\_ID),

FOREIGN KEY (StoreNumber)

REFERENCES Store ON DELETE CASCADE,

FOREIGN KEY (SalaryGradeIdentifier)

REFERENCES SalaryGrade ON DELETE CASCADE,

CONSTRAINT di\_table\_Employee\_StoreNumber CHECK

(StoreNumber <= 87)

);

CREATE TABLE Customer

(

Customer\_ID integer,

CustomerName text,

Street text,

City text,

Zip integer,

Phone integer,

CONSTRAINT CustomerPK PRIMARY KEY (Customer\_ID)

);

CREATE TABLE EmployeeCustomer

(

Employee\_ID integer NOT NULL,

Customer\_ID integer NOT NULL,

CONSTRAINT EmployeeCustomerPK PRIMARY KEY (Employee\_ID,Customer\_ID),

FOREIGN KEY (Employee\_ID)

REFERENCES Employee ON DELETE CASCADE,

FOREIGN KEY (Customer\_ID)

REFERENCES Customer ON DELETE CASCADE

);

CREATE TABLE CustomerOrder

(

CustomerOrder\_ID integer NOT NULL,

Customer\_ID integer,

Employee\_ID integer,

CONSTRAINT CustomerOrderPK PRIMARY KEY (CustomerOrder\_ID),

FOREIGN KEY (Customer\_ID)

REFERENCES Customer ON DELETE CASCADE

);

CREATE TABLE Product

(

Product\_ID integer NOT NULL,

Quantity integer,

ProductDescription text,

UnitPrice integer,

CONSTRAINT ProductPK PRIMARY KEY (Product\_ID),

CONSTRAINT di\_table\_Product\_UnitPrice CHECK

(UnitPrice >= 0) ,

CONSTRAINT di\_table\_Product\_Quantity CHECK

(Quantity >= 0)

);

CREATE TABLE Ordedproduct

(

CustomerOrder\_ID integer NOT NULL,

Product\_ID integer NOT NULL,

SalesAmount integer,

OrderTotalPrice integer,

CONSTRAINT OrdedproductPK PRIMARY KEY (CustomerOrder\_ID,Product\_ID),

FOREIGN KEY (CustomerOrder\_ID) REFERENCES CustomerOrder ON DELETE CASCADE,

FOREIGN KEY (Product\_ID) REFERENCES Product ON DELETE CASCADE

);

INSERT INTO Store VALUES('1', 'JB Hi-Fi Leichhardt');

INSERT INTO Store VALUES('2', 'JB Hi-Fi City');

INSERT INTO Store VALUES('3', 'JJB Hi-Fi Roselands');

INSERT INTO Store VALUES('4', 'JB Hi-Fi Top Ryde');

INSERT INTO Store VALUES('5', 'JB Hi-Fi Homebush HOME');

INSERT INTO SalaryGrade VALUES('1', '28', '0.3');

INSERT INTO SalaryGrade VALUES('2', '35', '0.3');

INSERT INTO SalaryGrade VALUES('3', '40', '0.2');

INSERT INTO SalaryGrade VALUES('4', '45', '0.2');

INSERT INTO SalaryGrade VALUES('5', '50', '0.2');

INSERT INTO SalaryGrade VALUES('6', '58', '0.1');

INSERT INTO Employee VALUES('101', '1', '4', 'Julia', Null);

INSERT INTO Employee VALUES('102', '2', '1', 'John',Null );

INSERT INTO Employee VALUES('103', '2', '3', 'Daisy','102' );

INSERT INTO Employee VALUES('104', '2', '2', 'Crystal','102' );

INSERT INTO Employee VALUES('105', '1', '1', 'Jenny','101' );

INSERT INTO Employee VALUES('106', '1', '1', 'Anna','101' );

INSERT INTO Employee VALUES('107', '1', '1', 'Bob','105' );

INSERT INTO Employee VALUES('108', '1', '1', 'Chris','105' );

INSERT INTO Employee VALUES('109', '1', '1', 'Deb','105' );

INSERT INTO Employee VALUES('110', '1', '1', 'Celia','106' );

INSERT INTO Employee VALUES('111', '1', '1', 'Cheryl','106' );

INSERT INTO Employee VALUES('112', '2', '1', 'Jennifer','102' );

INSERT INTO Employee VALUES('113', '2', '1', 'Jo','104' );

INSERT INTO Employee VALUES('114', '2', '1', 'Martina','104' );

INSERT INTO Employee VALUES('115', '2', '1', 'Nan','113' );

INSERT INTO Employee VALUES('116', '2', '1', 'Pasty','113' );

INSERT INTO Employee VALUES('117', '2', '1', 'Nina','113' );

INSERT INTO Customer VALUES('201','Bob','Belmore st', 'Sydney', '2134', '0452156182');

INSERT INTO Customer VALUES('202','Mary','Vector st', 'Brisban', '2167', '0452146182');

INSERT INTO Customer VALUES('203','Brenden','Belmore st', 'Melbure', '2121', '0452567182');

INSERT INTO Customer VALUES('204','Cagen','Church st', 'Sydney', '2432', '0452158182');

INSERT INTO Customer VALUES('205','Morgan','John st', 'Sydney', '2458', '0457896182');

INSERT INTO EmployeeCustomer VALUES('101', '201');

INSERT INTO EmployeeCustomer VALUES('102', '202');

INSERT INTO EmployeeCustomer VALUES('103', '203');

INSERT INTO EmployeeCustomer VALUES('104', '204');

INSERT INTO EmployeeCustomer VALUES('105', '205');

INSERT INTO CustomerOrder VALUES('10001', '201', '101');

INSERT INTO CustomerOrder VALUES('10002', '202', '102');

INSERT INTO CustomerOrder VALUES('10003', '203', '103');

INSERT INTO CustomerOrder VALUES('10004', '204', '105');

INSERT INTO CustomerOrder VALUES('10005', '205', '105');

INSERT INTO CustomerOrder VALUES('10006', '205', '104');

INSERT INTO CustomerOrder VALUES('10007', '201', '104');

INSERT INTO CustomerOrder VALUES('10008', '202', '104');

INSERT INTO CustomerOrder VALUES('10009', '201', '105');

INSERT INTO CustomerOrder VALUES('10010', '202', '105');

INSERT INTO Product VALUES('11', '501', 'Microsoft laptop 4', '1499');

INSERT INTO Product VALUES('12', '502', 'Go Pro', '499');

INSERT INTO Product VALUES('13', '503', 'Apple-pro 128G', '1199');

INSERT INTO Product VALUES('14', '504', 'HP FQ2041 Full HD Laptop', '899');

INSERT INTO Product VALUES('15', '505', 'Microsoft Surface Laptop Go', '1089');

INSERT INTO Ordedproduct VALUES('10001', '11', '1', '1499');

INSERT INTO Ordedproduct VALUES('10001', '13', '1', '1199');

INSERT INTO Ordedproduct VALUES('10002', '12', '1', '499');

INSERT INTO Ordedproduct VALUES('10002', '14', '1', '899');

INSERT INTO Ordedproduct VALUES('10002', '15', '1', '1089');

INSERT INTO Ordedproduct VALUES('10003', '13', '1', '1199');

INSERT INTO Ordedproduct VALUES('10004', '14', '1', '899');

INSERT INTO Ordedproduct VALUES('10004', '11', '2', '2998');

INSERT INTO Ordedproduct VALUES('10004', '15', '3', '3267');

INSERT INTO Ordedproduct VALUES('10005', '15', '1', '1089');

create view employeesales as

select employee\_id, SUM(ordertotalprice) as PersonalPerformance

from customerorder, ordedproduct

group by employee\_id ;