

SKLEP ELEKTRONICZNY OŚWIECENIE

1. Wprowadzenie

W ramach projektu zdecydowaliśmy się zaprojektować bazę danych do zarządzania sklepem z elektroniką i jej serwisem.

1.1. Założenia

- Klient ma ten sam adres rozliczeniowy co zamieszkania.
- Pracownicy dostają wynagrodzenie zależne wyłącznie od przepracowanych godzin.
- Pracownik może iść na zwolnienie na nieznany w momencie zwolenienia okres czasu.
- Zamówienie może składać się z wielu części, może pracować przy nim wiele osób, cena za poszczególne usługi nie jest znana, w tabeli zapisana jest tylko kwota całkowita. W naszym doświadczeniu sklepy elektroniczne rzadko posiadają rozpis kosztów każdej z usług z osobna.
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2. Nasz kod

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CREATE TABLE Customers (
    CustomerID INTEGER PRIMARY KEY AUTOINCREMENT,
    FirstName TEXT NOT NULL,
    LastName TEXT NOT NULL,
    PhoneNumber TEXT,
    Email TEXT UNIQUE,
    AddressID INTEGER,
    FOREIGN KEY (AddressID) REFERENCES Addresses(AddressID)
)
CREATE TABLE Addresses (
    AddressID INTEGER PRIMARY KEY AUTOINCREMENT,
    City TEXT NOT NULL,
    Street TEXT,
    StreetNumber TEXT NOT NULL,
    FlatNumber TEXT,
    PostalCode TEXT NOT NULL
)
CREATE TABLE Employees (
    EmployeeID INTEGER PRIMARY KEY AUTOINCREMENT,
    FirstName TEXT NOT NULL,
    LastName TEXT NOT NULL,
    ContractID INTEGER NOT NULL,
    EmploymentDate NUMERIC NOT NULL,
    AddressID INTEGER NOT NULL,
    FOREIGN KEY (AddressID) REFERENCES Addresses(AddressID)
    FOREIGN KEY (ContractID) REFERENCES Contracts(ContractID)
)
CREATE TABLE Positions (
    PositionID INTEGER PRIMARY KEY AUTOINCREMENT,
    PositionName TEXT NOT NULL
)
CREATE TABLE Contracts (
    ContractID INTEGER PRIMARY KEY AUTOINCREMENT,
    PositionID INTEGER NOT NULL,
    ContractStart NUMERIC NOT NULL,
    ContractEnd NUMERIC,
    HourlyPay REAL NOT NULL,
    WorkingTime REAL NOT NULL,
    FOREIGN KEY (PositionID) REFERENCES Positions(PositionID)
)
CREATE TABLE WorkEquipment (
    EmployeeID INTEGER NOT NULL,
    EquipmentID INTEGER NOT NULL,
    Quantity INTEGER NOT NULL,
    PRIMARY KEY(EmployeeID, EquipmentID),
    FOREIGN KEY (EquipmentID) REFERENCES Equipment(EquipmentID),
    FOREIGN KEY (EmployeeID) REFERENCES Employees(EmployeeID)
)

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)
CREATE TABLE Equipment (
    EquipmentID INTEGER PRIMARY KEY AUTOINCREMENT,
    EquipmentName TEXT NOT NULL UNIQUE
)
CREATE TABLE WorkLeave (
    EmployeeID INTEGER PRIMARY KEY,
    LeaveDate NUMERIC NOT NULL,
    ReturnDate NUMERIC,
    LeaveTypeID INT NOT NULL,
    FOREIGN KEY(EmployeeID) REFERENCES Employees(EmployeeID),
    FOREIGN KEY(LeaveTypeID) REFERENCES LeaveTypes(LeaveTypeID)
)
CREATE TABLE LeaveTypes (
    LeaveTypeID INTEGER PRIMARY KEY AUTOINCREMENT,
    LeaveTypeName TEXT
)
CREATE TABLE Orders (
    OrderID INTEGER PRIMARY KEY AUTOINCREMENT,
    CustomerID INTEGER NOT NULL,
    OrderDate NUMERIC NOT NULL,
    OrderStatusID INTEGER NOT NULL,
    Price NUMERIC,
    FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID),
    FOREIGN KEY (OrderStatusID) REFERENCES OrderStatuses(OrderStatusID)
)
CREATE TABLE OrderStatuses(
    OrderStatusID INTEGER PRIMARY KEY AUTOINCREMENT,
    OrderStatusName TEXT NOT NULL
)
CREATE TABLE Payments (
    OrderID INTEGER PRIMARY KEY,
    PaymentMethodID INT,
    PaymentStatusID INT,
    FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),
    FOREIGN KEY (PaymentMethodID) REFERENCES PaymentMethods(PaymentMethodID),
    FOREIGN KEY (PaymentStatusID) REFERENCES PaymentStatuses(PaymentStatusID)
)
CREATE TABLE PaymentMethods (
    PaymentMethodID INTEGER PRIMARY KEY AUTOINCREMENT,
    PaymentMethodName TEXT NOT NULL
)
CREATE TABLE PaymentStatuses (
    PaymentStatusID INTEGER PRIMARY KEY AUTOINCREMENT,
    PaymentStatusName TEXT NOT NULL
)
CREATE TABLE OrderDetails (
    OrderID INTEGER NOT NULL,

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DeviceID INTEGER NOT NULL,
PartID INTEGER,
RepairStatusID INTEGER,
Quantity INTEGER NOT NULL,
EmployeeID INTEGER,
RepairTypeID INTEGER,
Description TEXT,
PRIMARY KEY (OrderID, DeviceID),
FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),
FOREIGN KEY (DeviceID) REFERENCES Devices(DeviceID),
FOREIGN KEY (PartID) REFERENCES Parts(PartID),
FOREIGN KEY (RepairStatusID) REFERENCES RepairStatuses(RepairStatusID),
FOREIGN KEY (EmployeeID) REFERENCES Employees(EmployeeID),
FOREIGN KEY (RepairTypeID) REFERENCES RepairTypes(RepairTypeID)
)
CREATE TABLE Devices (
DeviceID INTEGER PRIMARY KEY AUTOINCREMENT,
DeviceName TEXT NOT NULL,
DeviceTypeID INTEGER NOT NULL,
FOREIGN KEY (DeviceTypeID) REFERENCES DeviceTypes(DeviceTypeID)
)
CREATE TABLE DeviceTypes (
DeviceTypeID INTEGER PRIMARY KEY AUTOINCREMENT,
DeviceTypeName TEXT NOT NULL
)
CREATE TABLE RepairTypes (
RepairTypeID INTEGER PRIMARY KEY AUTOINCREMENT,
RepairTypeName TEXT NOT NULL
)
CREATE TABLE RepairStatuses (
RepairStatusID INTEGER PRIMARY KEY AUTOINCREMENT,
RepairStatusName TEXT NOT NULL
)
CREATE TABLE Parts (
PartID INTEGER PRIMARY KEY AUTOINCREMENT,
PartTypeID INTEGER,
DeviceID INTEGER,
Quantity INTEGER,
SupplierID INTEGER,
FOREIGN KEY (PartTypeID) REFERENCES PartTypes(PartTypeID),
FOREIGN KEY (DeviceID) REFERENCES Devices(DeviceID),
FOREIGN KEY (SupplierID) REFERENCES Suppliers
)
CREATE TABLE PartTypes (
PartTypeID INTEGER PRIMARY KEY AUTOINCREMENT,
PartTypeName TEXT
)
CREATE TABLE Suppliers (

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SupplierID INTEGER PRIMARY KEY AUTOINCREMENT,  
SupplierName TEXT  
)  
CREATE TABLE SuppliesOrders (  
SuppliesOrderID INTEGER PRIMARY KEY AUTOINCREMENT,  
PartID INTEGER,  
SupplierID INTEGER,  
DeliveryStatusID INT,  
FOREIGN KEY (PartID) REFERENCES Parts(PartID),  
FOREIGN KEY (SupplierID) REFERENCES Suppliers(SupplierID),  
FOREIGN KEY (DeliveryStatusID) REFERENCES  
DeliveryStatuses(DeliveryStatusID)  
)  
CREATE TABLE DeliveryStatuses(  
DeliveryStatusID INTEGER PRIMARY KEY AUTOINCREMENT,  
DeliveryStatusName TEXT  
)
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