**Hurtownie Danych - Ćwiczenia 2**

z1.

A diagram of a product

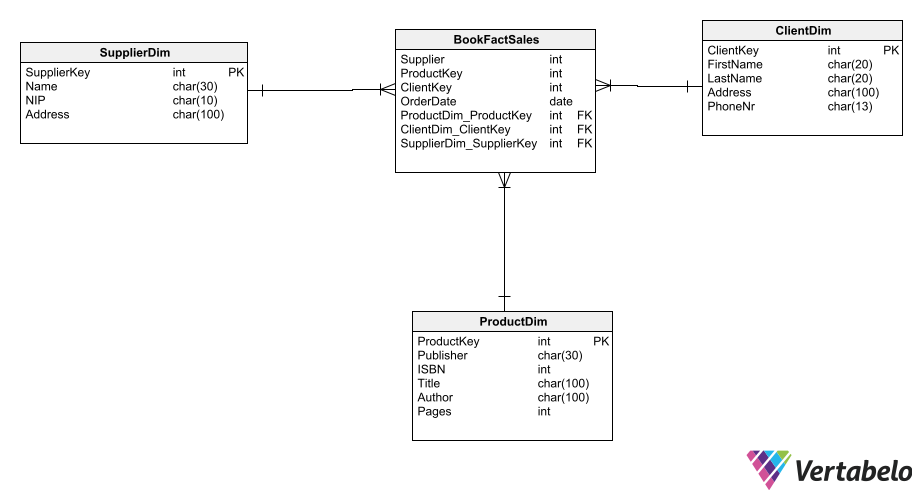
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z2.

A diagram of a data flow

Description automatically generated

z3.



-- Table: BookFactSales

CREATE TABLE BookFactSales (

SaleKey int NOT NULL,

SupplierDim\_SupplierKey int NOT NULL,

ClientDim\_ClientKey int NOT NULL,

ProductDim\_ProductKey int NOT NULL,

Supplier int NOT NULL,

ProductKey int NOT NULL,

ClientKey int NOT NULL,

OrderDate date NOT NULL,

CONSTRAINT BookFactSales\_pk PRIMARY KEY (SaleKey)

);

-- Table: ClientDim

CREATE TABLE ClientDim (

ClientKey int NOT NULL,

FirstName char(20) NOT NULL,

LastName char(20) NOT NULL,

Address char(100) NOT NULL,

PhoneNr char(13) NOT NULL,

CONSTRAINT ClientDim\_pk PRIMARY KEY (ClientKey)

);

-- Table: ProductDim

CREATE TABLE ProductDim (

ProductKey int NOT NULL,

Publisher char(30) NOT NULL,

ISBN int NOT NULL,

Title char(100) NOT NULL,

Author char(100) NOT NULL,

Pages int NOT NULL,

CONSTRAINT ProductDim\_pk PRIMARY KEY (ProductKey)

);

-- Table: SupplierDim

CREATE TABLE SupplierDim (

SupplierKey int NOT NULL,

Name char(30) NOT NULL,

NIP char(10) NOT NULL,

Address char(100) NOT NULL,

CONSTRAINT SupplierDim\_pk PRIMARY KEY (SupplierKey)

);

-- Reference: Copy\_of\_FruitSalesFact\_ClientDim (table: BookFactSales)

ALTER TABLE BookFactSales ADD CONSTRAINT Copy\_of\_FruitSalesFact\_ClientDim

FOREIGN KEY (ClientDim\_ClientKey)

REFERENCES ClientDim (ClientKey);

-- Reference: Copy\_of\_FruitSalesFact\_FruitDim (table: BookFactSales)

ALTER TABLE BookFactSales ADD CONSTRAINT Copy\_of\_FruitSalesFact\_FruitDim

FOREIGN KEY (SupplierDim\_SupplierKey)

REFERENCES SupplierDim (SupplierKey);

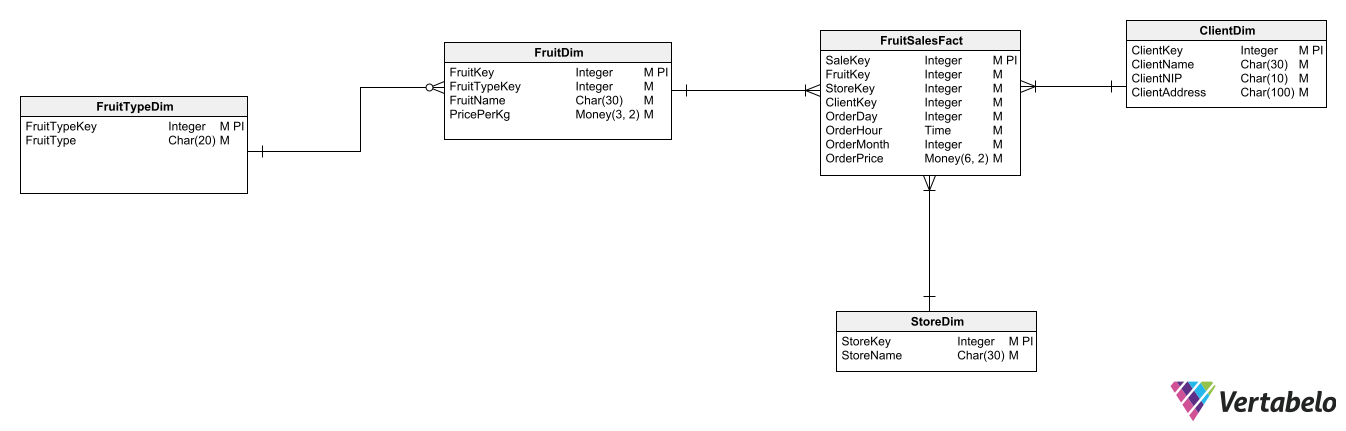
-- Reference: Copy\_of\_FruitSalesFact\_StoreDim (table: BookFactSales)

ALTER TABLE BookFactSales ADD CONSTRAINT Copy\_of\_FruitSalesFact\_StoreDim

FOREIGN KEY (ProductDim\_ProductKey)

REFERENCES ProductDim (ProductKey);

z4.



A screenshot of a computer

Description automatically generated

-- Table: ClientDim

CREATE TABLE ClientDim (

ClientKey int NOT NULL,

ClientName char(30) NOT NULL,

ClientNIP char(10) NOT NULL,

ClientAddress char(100) NOT NULL,

CONSTRAINT ClientDim\_pk PRIMARY KEY (ClientKey)

);

-- Table: FruitDim

CREATE TABLE FruitDim (

FruitKey int NOT NULL,

FruitTypeKey int NOT NULL,

FruitName char(30) NOT NULL,

PricePerKg money NOT NULL,

FruitTypeDim\_FruitTypeKey int NOT NULL,

CONSTRAINT FruitDim\_pk PRIMARY KEY (FruitKey)

);

-- Table: FruitSalesFact

CREATE TABLE FruitSalesFact (

SaleKey int NOT NULL,

FruitKey int NOT NULL,

StoreKey int NOT NULL,

ClientKey int NOT NULL,

OrderDay int NOT NULL,

OrderHour time NOT NULL,

OrderMonth int NOT NULL,

OrderPrice money NOT NULL,

FruitDim\_FruitKey int NOT NULL,

ClientDim\_ClientKey int NOT NULL,

StoreDim\_StoreKey int NOT NULL,

CONSTRAINT FruitSalesFact\_pk PRIMARY KEY (SaleKey)

);

-- Table: FruitTypeDim

CREATE TABLE FruitTypeDim (

FruitTypeKey int NOT NULL,

FruitType char(20) NOT NULL,

CONSTRAINT FruitTypeDim\_pk PRIMARY KEY (FruitTypeKey)

);

-- Table: StoreDim

CREATE TABLE StoreDim (

StoreKey int NOT NULL,

StoreName char(30) NOT NULL,

CONSTRAINT StoreDim\_pk PRIMARY KEY (StoreKey)

);

-- foreign keys

-- Reference: FruitSalesFact\_ClientDim (table: FruitSalesFact)

ALTER TABLE FruitSalesFact ADD CONSTRAINT FruitSalesFact\_ClientDim

FOREIGN KEY (ClientDim\_ClientKey)

REFERENCES ClientDim (ClientKey);

-- Reference: FruitSalesFact\_FruitDim (table: FruitSalesFact)

ALTER TABLE FruitSalesFact ADD CONSTRAINT FruitSalesFact\_FruitDim

FOREIGN KEY (FruitDim\_FruitKey)

REFERENCES FruitDim (FruitKey);

-- Reference: FruitSalesFact\_StoreDim (table: FruitSalesFact)

ALTER TABLE FruitSalesFact ADD CONSTRAINT FruitSalesFact\_StoreDim

FOREIGN KEY (StoreDim\_StoreKey)

REFERENCES StoreDim (StoreKey);

-- Reference: FruitTypeDim (table: FruitDim)

ALTER TABLE FruitDim ADD CONSTRAINT FruitTypeDim

FOREIGN KEY (FruitTypeDim\_FruitTypeKey)

REFERENCES FruitTypeDim (FruitTypeKey);

A diagram of a workflow

Description automatically generatedz5.

A diagram of a company

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-- tables

-- Table: EmployeeFact

CREATE TABLE EmployeeFact (

EmployeeKey int NOT NULL,

Name char(30) NOT NULL,

PESEL char(11) NOT NULL,

Salary decimal(10,2) NOT NULL,

CONSTRAINT EmployeeFact\_pk PRIMARY KEY (EmployeeKey)

);

-- Table: EmployeeRateDim

CREATE TABLE EmployeeRateDim (

EmployeeKey int NOT NULL,

EmployeeSurrKey int NOT NULL,

Rate int NOT NULL,

EffectiveDate date NOT NULL,

"Current" bit NOT NULL,

EmployeeFact\_EmployeeKey int NOT NULL,

CONSTRAINT EmployeeRateDim\_pk PRIMARY KEY (EmployeeSurrKey)

);

-- foreign keys

-- Reference: EmployeeRateDim\_EmployeeFact (table: EmployeeRateDim)

ALTER TABLE EmployeeRateDim ADD CONSTRAINT EmployeeRateDim\_EmployeeFact

FOREIGN KEY (EmployeeFact\_EmployeeKey)

REFERENCES EmployeeFact (EmployeeKey);

z6.

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-- tables

-- Table: ProductDetailsDim

CREATE TABLE ProductDetailsDim (

ProductSurrKey int NOT NULL,

ProductDim\_ProductKey int NOT NULL,

Details char(200) NOT NULL,

Version int NOT NULL,

CONSTRAINT ProductDetailsDim\_pk PRIMARY KEY (ProductSurrKey)

);

-- Table: ProductDim

CREATE TABLE ProductDim (

ProductKey int NOT NULL,

Name char(30) NOT NULL,

Brand char(30) NOT NULL,

CONSTRAINT ProductDim\_pk PRIMARY KEY (ProductKey)

);

-- Table: StorageDim

CREATE TABLE StorageDim (

StorageDimKey int NOT NULL,

Address char(100) NOT NULL,

Country char(30) NOT NULL,

CONSTRAINT StorageDim\_pk PRIMARY KEY (StorageDimKey)

);

-- Table: StorageFact

CREATE TABLE StorageFact (

StorageFactKey int NOT NULL,

ProductDim\_ProductKey int NOT NULL,

StorageDim\_StorageDimKey int NOT NULL,

Amount int NOT NULL,

Date date NOT NULL,

CONSTRAINT StorageFact\_pk PRIMARY KEY (StorageFactKey)

);

-- foreign keys

-- Reference: ProductDetailsDim\_ProductDim (table: ProductDetailsDim)

ALTER TABLE ProductDetailsDim ADD CONSTRAINT ProductDetailsDim\_ProductDim

FOREIGN KEY (ProductDim\_ProductKey)

REFERENCES ProductDim (ProductKey);

-- Reference: StorageFact\_ProductDim (table: StorageFact)

ALTER TABLE StorageFact ADD CONSTRAINT StorageFact\_ProductDim

FOREIGN KEY (ProductDim\_ProductKey)

REFERENCES ProductDim (ProductKey);

-- Reference: StorageFact\_StorageDim (table: StorageFact)

ALTER TABLE StorageFact ADD CONSTRAINT StorageFact\_StorageDim

FOREIGN KEY (StorageDim\_StorageDimKey)

REFERENCES StorageDim (StorageDimKey);