## OPC Database Archive Schema (re-created from historical backups)

-- 1) Lookup: STATES

CREATE TABLE states (

state\_id INT PRIMARY KEY,

state TEXT NOT NULL

);

-- 2) CUSTOMERS

CREATE TABLE customers (

cus\_id SERIAL PRIMARY KEY,

cus\_num TEXT,

cus\_last\_name TEXT,

cus\_first\_name TEXT,

cus\_add\_num TEXT,

cus\_address TEXT,

cus\_city TEXT,

state\_id INT NOT NULL REFERENCES states(state\_id),

cus\_zip TEXT,

cus\_phone TEXT,

cus\_join\_date DATE,

cus\_app\_cd TEXT,

cus\_app\_num TEXT

);

-- 3) WAREHOUSES

CREATE TABLE warehouses (

warehouse\_id SERIAL PRIMARY KEY,

warehouse\_name TEXT NOT NULL,

state\_id INT NOT NULL REFERENCES states(state\_id)

);

-- 4) SUPPLIERS

CREATE TABLE suppliers (

sup\_id SERIAL PRIMARY KEY,

sup\_name TEXT NOT NULL,

sup\_ctry TEXT

);

-- 5) COMPONENTS

CREATE TABLE components (

comp\_id SERIAL PRIMARY KEY,

comp\_name TEXT NOT NULL,

comp\_cost NUMERIC(10,2),

sup\_id INT REFERENCES suppliers(sup\_id),

comp\_cat TEXT

);

-- 6) BUILDS

CREATE TABLE builds (

build\_id SERIAL PRIMARY KEY,

build\_name TEXT NOT NULL

);

-- 7) BUILD\_COMPONENTS (many-to-many Builds ↔ Components)

CREATE TABLE build\_components (

build\_id INT NOT NULL REFERENCES builds(build\_id),

comp\_id INT NOT NULL REFERENCES components(comp\_id),

PRIMARY KEY (build\_id, comp\_id)

);

-- 8) PRODUCTS

CREATE TABLE products (

prod\_id SERIAL PRIMARY KEY,

prod\_cat\_name TEXT,

prod\_manufacturer TEXT,

prod\_name TEXT NOT NULL,

prod\_description TEXT,

prod\_price NUMERIC(10,2),

prod\_class TEXT,

country\_origin TEXT

);

-- 9) PRODUCT\_BUILDS (many-to-many Products ↔ Builds)

CREATE TABLE product\_builds (

prod\_id INT NOT NULL REFERENCES products(prod\_id),

build\_id INT NOT NULL REFERENCES builds(build\_id),

PRIMARY KEY (prod\_id, build\_id)

);

-- 10) ORDERS (header)

CREATE TABLE orders (

ord\_id SERIAL PRIMARY KEY,

ord\_date DATE NOT NULL,

ord\_tax\_loc INT,

order\_tot NUMERIC(12,2),

ord\_ship\_add BOOLEAN,

ord\_ship\_date DATE,

ord\_track\_num TEXT,

warehouse\_id INT REFERENCES warehouses(warehouse\_id),

cus\_id INT NOT NULL REFERENCES customers(cus\_id)

);

-- 11) ORDER\_ITEMS (detail)

CREATE TABLE order\_items (

ord\_id INT NOT NULL REFERENCES orders(ord\_id),

prod\_id INT NOT NULL REFERENCES products(prod\_id),

quantity INT NOT NULL,

line\_total NUMERIC(12,2) NOT NULL,

PRIMARY KEY (ord\_id, prod\_id)

);

-- 12) RETURNS (header)

CREATE TABLE returns (

rac\_id SERIAL PRIMARY KEY,

ord\_id INT NOT NULL REFERENCES orders(ord\_id),

cus\_id INT NOT NULL REFERENCES customers(cus\_id),

warehouse\_id INT NOT NULL REFERENCES warehouses(warehouse\_id),

return\_date DATE NOT NULL,

tot\_ret\_item\_cnt INT,

tot\_ret\_amnt NUMERIC(12,2)

);

-- 13) RETURN\_ITEMS (detail)

CREATE TABLE return\_items (

rac\_id INT NOT NULL REFERENCES returns(rac\_id),

prod\_id INT REFERENCES products(prod\_id),

comp\_id INT REFERENCES components(comp\_id),

return\_qty INT,

return\_amount NUMERIC(12,2),

return\_reason TEXT,

PRIMARY KEY (rac\_id, prod\_id, comp\_id)

);

-- 14) TAXES (lookup)

CREATE TABLE taxes (

tax\_id SERIAL PRIMARY KEY,

tax\_desc TEXT,

tax\_rate NUMERIC(5,4)

);

-- 15) ORDER\_TAXES (bridge Orders ↔ Taxes)

CREATE TABLE order\_taxes (

ord\_id INT NOT NULL REFERENCES orders(ord\_id),

tax\_id INT NOT NULL REFERENCES taxes(tax\_id),

PRIMARY KEY (ord\_id, tax\_id)

);