

Relational Database Creation Statements

Lists the queries used to construct the requisite tables and starting set of data.

-- Create Table Statements

-- DROP TABLE cart, order_history, users, pcs, smartphones, gaming_consoles,
headphones;

-- Users

```
CREATE TABLE Users (  
    first_name varchar(50),  
    last_name varchar(50),  
    username varchar(50),  
    password varchar(50),  
    phone_number varchar(50),  
    street varchar(50),  
    city varchar(50),  
    state varchar(50),  
    zip int(50),  
    card_number varchar(50),  
    age int(50),  
    PRIMARY KEY (username)  
);
```

-- Cart

```
CREATE TABLE Cart (  
    cart_id int(50),
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        username varchar(50),
        item_id int(50),
        no_item int(50),
        PRIMARY KEY (cart_id)
    );

-- Order_History
CREATE TABLE Order_History (
    order_id int(50),
    username varchar(50),
    item_id int(50),
    no_item int(50)
);

-- Headphones
CREATE TABLE Headphones (
    item_id int(50),
    no_in_stock int(50),
    make varchar(50),
    model varchar(50),
    ear_placement varchar(50),
    color varchar(50),
    manufacturer varchar(50),
    connectivity varchar(50),
    noise_cancellation TINYINT(1),
    battery_capacity varchar(50),

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        playback_range varchar(50),
        price double,
        PRIMARY KEY (item_id)
    );
-- PCs
CREATE TABLE PCs (
    item_id int(50),
    no_in_stock int(50),
    make varchar(50),
    model varchar(50),
    processor varchar(50),
    RAM varchar(50),
    device_id varchar(50),
    product_id varchar(50),
    system_type varchar(50),
    model_type varchar(50),
    operating_system varchar(50),
    length double,
    width double,
    storage_size varchar(50),
    price double,
    release_date varchar(50),
    battery_capacity varchar(50),
    PRIMARY KEY (item_id)

```

```

);

-- Smartphones

CREATE TABLE Smartphones (
    item_id int(50),
    no_in_stock int(50),
    make varchar(50),
    model varchar(50),
    network_capability varchar(50),
    network_carrier varchar(50),
    length double,
    width double,
    screen_resolution varchar(50),
    memory_card_type varchar(50),
    operating_system varchar(50),
    charger_type varchar(50),
    color varchar(50),
    storage_size varchar(50),
    price double,
    release_date varchar(50),
    PRIMARY KEY (item_id)
);

-- Gaming_Consoles

CREATE TABLE Gaming_Consoles (
    item_id int(50),

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        no_in_stock int(50),
        make varchar(50),
        model varchar(50),
        brand varchar(50),
        price double,
        backward_compatibility TINYINT(1),
        DVD_player TINYINT(1),
        cartridge_type varchar(50),
        color varchar(50),
        internet_connectivity TINYINT(1),
        handheld TINYINT(1),
        online_services TINYINT(1),
        FPS int(50),
        screen_resolution varchar(50),
        release_date varchar(50),
        storage_size varchar(50),
        PRIMARY KEY (item_id)
    );

-- Sample Data

-- Users

-- TRUNCATE TABLE users;

INSERT INTO Users (first_name, last_name, username, password, phone_number,

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street, city, state, zip, card_number, age) VALUES ('James', 'Smith', 'js1',
'ecom1234567', '8555323434', '795 E Driagram', 'Tucson', 'AZ', '85705',
'37000000000000020', '18');
INSERT INTO Users (first_name, last_name, username, password, phone_number,
street, city, state, zip, card_number, age) VALUES ('John', 'Johnson', 'jj2',
'ecom2468101', '8669852614', '200 W Main St', 'Abington', 'MA', '98102',
'67034444444444449', '19');
INSERT INTO Users (first_name, last_name, username, password, phone_number,
street, city, state, zip, card_number, age) VALUES ('Mary', 'Williams', 'mw3',
'ecom1357911', '3652973137', '300 Boylston Ave E', 'Seattle', 'WA', '20620',
'8171999927660000', '20');
INSERT INTO Users (first_name, last_name, username, password, phone_number,
street, city, state, zip, card_number, age) VALUES ('Patricia', 'Brown', 'pb4',
'ecom1235711', '7065411865', '7292 Dictum Ave', 'San Antonio', 'MI', '47096',
'5019555544445555', '21');

-- Headphones
-- TRUNCATE TABLE headphones;
INSERT INTO Headphones (item_id, no_in_stock, make, model, ear_placement, color,
manufacturer, connectivity, noise_cancellation, battery_capacity, playback_range,
price) VALUES ('0001', '30', 'WH-1000X', 'M4', 'over-ear', 'silver', 'Sony', 'Bluetooth',
'1', '38 hr', '30 ft', '349.99');
INSERT INTO Headphones (item_id, no_in_stock, make, model, ear_placement, color,
manufacturer, connectivity, noise_cancellation, battery_capacity, playback_range,
price) VALUES ('0002', '3', 'AirPods', 'Pro', 'in-ear', 'white', 'Apple', 'Bluetooth', '1',
'4.5 hr', '30 ft', '249.00');
INSERT INTO Headphones (item_id, no_in_stock, make, model, ear_placement, color,
manufacturer, connectivity, noise_cancellation, battery_capacity, playback_range,
price) VALUES ('0003', '0', 'HD 800 S', NULL, 'over-ear', 'black', 'Sennheiser', 'wired',
'0', NULL, '0.02 ft', '1599.98');
INSERT INTO Headphones (item_id, no_in_stock, make, model, ear_placement, color,
manufacturer, connectivity, noise_cancellation, battery_capacity, playback_range,
price) VALUES ('0004', '10', 'Noise Cancelling Headphones', '700', 'over-ear', 'black',
'Bose', 'Bluetooth', '1', '20 hr', '33 ft', '379.00');

-- PCs (length and width in cm & price in USD)
-- TRUNCATE TABLE pcs;
INSERT INTO PCs (item_id, no_in_stock, make, model, processor, RAM, device_id,
product_id, system_type, model_type, operating_system, length, width, storage_size,
price, release_date, battery_capacity) VALUES ('0005', '2', 'MacBook', 'Pro 13"',
'1.4GHz quad-core Intel Core i5-based', '8 GB', 'c4ca4238a0b923', 'c81e728d9d4c2f',
'64-bit', 'traditional', 'macOs High Sierra', '30.41', '21.24', '256 GB', '1299.00',
'11/17/2020', '17 hr');
INSERT INTO PCs (item_id, no_in_stock, make, model, processor, RAM, device_id,

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product_id, system_type, model_type, operating_system, length, width, storage_size,
price, release_date, battery_capacity) VALUES ('0006', '50', 'Lenovo ThinkPad', 'X1',
'10th Generation Intel Core i5-10210U Processor', '16 GB', 'eccbc87e4b5ce2',
'308fd9f2a7baf3', '64-bit', '2-in-1', 'Windows 10 Pro', '32.36', '21.72', '512 GB',
'1444.36', '01/19/2020', '19.3 hr');
INSERT INTO PCs (item_id, no_in_stock, make, model, processor, RAM, device_id,
product_id, system_type, model_type, operating_system, length, width, storage_size,
price, release_date, battery_capacity) VALUES ('0007', '14', 'Dell', 'XPS 13', '11th Gen
Intel Core i3-1115G4', '8 GB', 'a87ff679a2f3e7', '81a67b7542122c', '64-bit',
'traditional', 'Windows 11 Home', '29.56', '19.86', '256 GB', '1219.99', '06/30/2021',
'12 hr');
INSERT INTO PCs (item_id, no_in_stock, make, model, processor, RAM, device_id,
product_id, system_type, model_type, operating_system, length, width, storage_size,
price, release_date, battery_capacity) VALUES ('0008', '44', 'Microsoft Surface', 'Pro
8', '11th Gen Intel Core i5-1135G7', '8 GB', 'e4da3b7fbbce2', '772b0674a318d5', '32-
bit', 'tablet', 'Windows 11', '33.02', '20.32', '128 GB', '898.99', '02/24/2020', '16 hr');

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-- Smartphones (length and width in cm & price in USD)
-- TRUNCATE TABLE smartphones;
INSERT INTO Smartphones (item_id, no_in_stock, make, model, network_capability,
network_carrier, length, width, screen_resolution, memory_card_type,
operating_system, charger_type, color, storage_size, price, release_date) VALUES
('0009', '4', 'iPhone', '13 Pro Max', '5G', 'AT&T', '16.08', '7.80', '2778-by-1284', NULL,
'iOS 13.7', 'USB-C', 'Graphite', '1 TB', '1099.00', '09/14/2021');
INSERT INTO Smartphones (item_id, no_in_stock, make, model, network_capability,
network_carrier, length, width, screen_resolution, memory_card_type,
operating_system, charger_type, color, storage_size, price, release_date) VALUES
('0010', '38', 'Samsung Galaxy', 'S22 Ultra', '5G', 'Verizon', '16.33', '7.79', '3088-
by-1440', NULL, 'Android 12', 'USB-C', 'Phantom White', '256 GB', '1199.99',
'02/17/2022');
INSERT INTO Smartphones (item_id, no_in_stock, make, model, network_capability,
network_carrier, length, width, screen_resolution, memory_card_type,
operating_system, charger_type, color, storage_size, price, release_date) VALUES
('0011', '52', 'Google Pixel', '6', '5G', 'Google Fi', '15.86', '7.48', '1080-by-2400', NULL,
'Android 12', 'USB-C', 'Kinda Coral', '256 GB', '599.00', '10/28/2021');
INSERT INTO Smartphones (item_id, no_in_stock, make, model, network_capability,
network_carrier, length, width, screen_resolution, memory_card_type,
operating_system, charger_type, color, storage_size, price, release_date) VALUES
('0012', '7', 'Samsung Galaxy', 'Z Fold 3', '5G', 'T-Mobile', '15.82', '12.81', '2208-
by-1768', NULL, 'Android 10', 'USB-C', 'Phantom Green', '512 GB', '1799.99',
'08/11/2021');

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-- Gaming_Consoles
-- TRUNCATE TABLE gaming_consoles;
INSERT INTO Gaming_Consoles (item_id, no_in_stock, make, model, brand, price,
backward_compatibility, DVD_player, cartridge_type, color, internet_connectivity,
handheld, online_services, FPS, screen_resolution, release_date, storage_size)
VALUES ('0013', '1', 'PlayStation', '5', 'Sony', '499.99', '1', '1', 'Disc', 'Cosmic Red', '1',
'0', '1', '120', '3840-by-2160', '11/12/2020', '825 GB');
INSERT INTO Gaming_Consoles (item_id, no_in_stock, make, model, brand, price,
backward_compatibility, DVD_player, cartridge_type, color, internet_connectivity,
handheld, online_services, FPS, screen_resolution, release_date, storage_size)
VALUES ('0014', '86', 'Xbox', 'Series X', 'Microsoft', '552.47', '1', '1', 'Disc', 'Black', '1',
'0', '1', '120', '3840-by-2160', '11/10/2020', '1 TB');
INSERT INTO Gaming_Consoles (item_id, no_in_stock, make, model, brand, price,
backward_compatibility, DVD_player, cartridge_type, color, internet_connectivity,
handheld, online_services, FPS, screen_resolution, release_date, storage_size)
VALUES ('0015', '6', 'Nintendo', 'Switch', 'Nintendo', '349.99', '0', '0', 'Game Card',
'Black', '1', '1', '1', '60', '1280-by-720', '03/03/2017', '64 GB');
INSERT INTO Gaming_Consoles (item_id, no_in_stock, make, model, brand, price,
backward_compatibility, DVD_player, cartridge_type, color, internet_connectivity,
handheld, online_services, FPS, screen_resolution, release_date, storage_size)
VALUES ('0016', '100', 'Steam', 'Steam Deck', 'Valve', '649.00', NULL, '0', NULL,
'Black', '1', '1', '1', '60', '1280-by-800', '02/25/2022', '512 GB');

-- Cart
-- TRUNCATE TABLE cart;
-- James Smith
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0001', 'js1', '1',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0002', 'js1', '2',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0003', 'js1', '7',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0004', 'js1', '10',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0005', 'js1', '15',
'1');
-- John Johnson
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0006', 'jj2', '2',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0007', 'jj2', '5',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0008', 'jj2', '9',
'1');
-- Mary Williams

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INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0009', 'mw3', '3',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0010', 'mw3', '8',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0011', 'mw3',
'12', '1');
-- Patricia Brown
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0012', 'pb4', '4',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0013', 'pb4', '6',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0014', 'pb4', '11',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0015', 'pb4', '13',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0016', 'pb4', '14',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0017', 'pb4', '15',
'1');
INSERT INTO Cart (cart_id, username, item_id, no_item) VALUES ('0018', 'pb4', '16',
'1');

-- Order_History
-- TRUNCATE TABLE order_history;
INSERT INTO Order_History (order_id, username, item_id, no_item) VALUES ('1',
'jj2', '13', 1);
INSERT INTO Order_History (order_id, username, item_id, no_item) VALUES ('1',
'jj2', '14', 1);
INSERT INTO Order_History (order_id, username, item_id, no_item) VALUES ('1',
'jj2', '15', 1);
INSERT INTO Order_History (order_id, username, item_id, no_item) VALUES ('1',
'jj2', '16', 1);

```