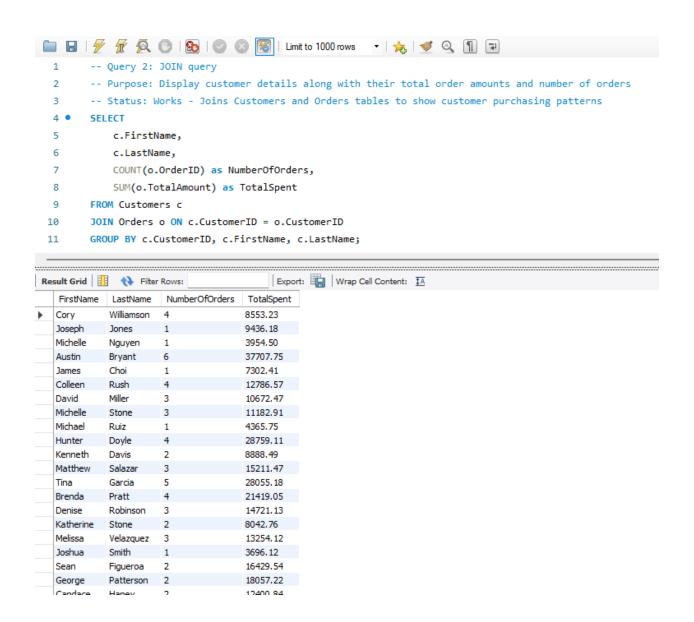
```
1
       -- PC Sales Database Queries
       -- Level 1: Read-only Queries
  3
       -- Query 1: Basic SELECT/FROM/WHERE
  4
  5
       -- Purpose: Find all PCs with price less than $1500 and RAM greater than 8GB
       -- Status: Works - Returns specific PCs matching price and RAM criteria
  6
  7
       SELECT Brand, Model, Price, RAM
       FROM PCs
  8
  9
       WHERE Price < 1500 AND RAM > 8;
                                                 tent: 🚺
```

	Brand	Model	Price	RAM		
•	Vance, Ramirez and Campos	Model 1	1047.87	33		
	Garcia-Soto	Model 2	1035.38	18		
	Taylor, Smith and Brown	Model 4	816.72	63		
	Smith-Gomez	Model 12	1172.74	40		
	Wade, Thompson and Richard	Model 13	1231.63	40		
	Harmon-Russell	Model 15	781.15	47		
	Jones Group	Model 17	1070.15	58		
	Wolf, Steele and Collins	Model 19	541.69	41		
	Huffman LLC	Model 22	1457.62	27		
	Craig Ltd	Model 28	1372.11	23		
	Roberts-Smith	Model 29	571.41	34		
	Martin-Lee	Model 31	939.54	23		
	Gonzalez Inc	Model 32	990.60	12		
	Lawrence Group	Model 33	606.12	54		
	Conway, Taylor and Parker	Model 36	1127.90	49		
	Williams Group	Model 38	1089.10	51		
	Mann-Morgan	Model 39	1368.98	47		
	Baker-Campos	Model 40	529.60	56		
	Horn, Alexander and Yates	Model 41	607.66	49		
	Vargas-Patel	Model 42	607.10	46		

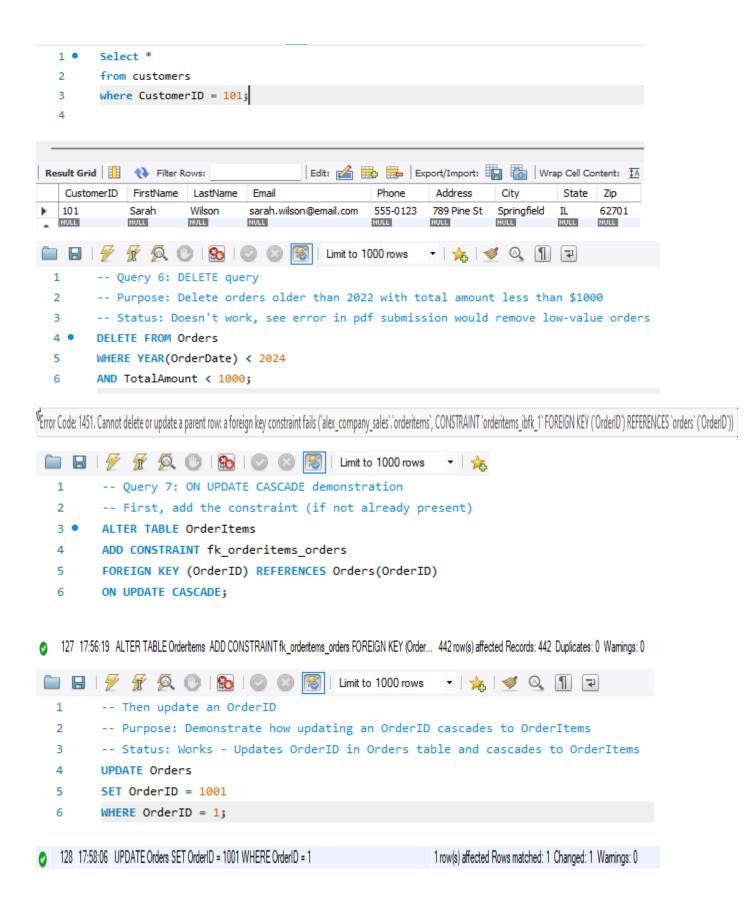


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  1
        -- Query 3: Subquery
         -- Purpose: Find all PCs that have a price higher than the average PC price
  2
         -- Status: Works - Uses subquery to calculate average price and compare
        SELECT Brand, Model, Price
  4
         FROM PCs
  5

⊕ WHERE Price > (
  6
             SELECT AVG(Price)
  7
  8
             FROM PCs
         );
  9
                                          Export: Wrap Cell Content: $\frac{1}{2}
Brand
                        Model
                                 Price
  Harper, Rodgers and Rios
                        Model 3
                                 2211.30
  Hernandez and Sons
                        Model 6
                                 2530.74
  Washington and Sons
                        Model 7
                                 2093.99
                        Model 9 1777.48
  Bond-Hicks
  Vasquez Group
                        Model 10 2831.60
  Pratt Group
                        Model 11 2312.28
  White and Sons
                        Model 14 2060.33
  Brooks-Johnson
                        Model 16 2209.22
                        Model 20 2483.72
  Solomon and Sons
                        Model 21 2754.29
  Garrett-Bates
  Lara-Holloway
                        Model 23 1888.00
                        Model 25 2423.24
  Stewart LLC
  Vazquez, Lucas and Harri... Model 26 2631.41
  Taylor-Barker
                        Model 27 1931.14
  Thomas Ltd
                        Model 30 1824.25
  Watkins LLC
                        Model 34 2102.96
  Lindsey PLC
                        Model 35 2931.83
  Holmes-Mccoy
                        Model 37 2336.67
  Stafford, Mann and Flores Model 44 2613.81
  Calderon, Reynolds and ... Model 45 2099.43
  Lee, Cook and Sullivan
                        Model 46 2888.19
  Pineda, Taylor and Pope Model 47 2529.47
  Lopez-Ochoa
                        Model 50 2731.71
```

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         -- Query 4: Aggregate function with GROUP BY
  1
         -- Purpose: Show the total inventory value by brand
         -- Status: Works - Calculates total value of inventory for each PC brand
            p.Brand,
             SUM(p.Price * i.Quantity) as TotalInventoryValue
         FROM PCs p
   8
         JOIN Inventory i ON p.PCID = i.PCID
   9
         GROUP BY p.Brand;
Export: Wrap Cell Content: IA
   Brand
                         TotalInventoryValue
   Vance, Ramirez and Campos 48202.02
                         42450.58
   Garcia-Soto
   Harper, Rodgers and Rios
                         214496.10
   Taylor, Smith and Brown
                         8167.20
   Zamora Inc
                         89678.05
   Hernandez and Sons
                      154375.14
   Washington and Sons
                         29315.86
   Lee-Thompson
                     91426.86
                         26662.20
   Vasquez Group
                       73621.60
   Pratt Group
                         41621.04
                      110237.56
   Smith-Gomez
   Wade, Thompson and Richard 109615.07
   White and Sons 107137.16
   Harmon-Russell
                         9373.80
   Brooks-Johnson
                     35347.52
   Jones Group
                         68489.60
                  114565.50
   Andrade-Collins
   Wolf, Steele and Collins
                         42793.51
                       47190.68
   Solomon and Sons
   Garrett-Bates
                         24788,61
                   16033.82
   Huffman LLC
   Lara-Holloway
                         188800.00
   Flores, Dickerson and Sher... 63407.60
   Stewart LLC
                         60581.00
   Vazquez, Lucas and Harrison 199987.16
   Taylor-Barker
                         38622.80
   Craig Ltd
                         126234.12
   Roberts-Smith
                         15999.48
                      162358.25
   Thomas Ltd
                         1879.08
   Martin-Lee
   Gonzalez Inc
                         81229.20
                         12122,40
   Lawrence Group
                      136692.40
   Watkins LLC
   Lindsey PLC
                         149523.33
   Conway, Taylor and Parker 76697.20
   Holmes-Mccoy
                         72436.77
   Williams Group
                         62078.70
1
      -- Level 2: Modification Queries
2
3
      -- Query 5: INSERT query
4
      -- Purpose: Add a new customer record
       -- Status: Works - Inserts a new customer into the Customers table
5
6 • INSERT INTO Customers (CustomerID, FirstName, LastName, Email, Phone, Address, City, State, Zip)
      VALUES (101, 'Sarah', 'Wilson', 'sarah.wilson@email.com', '555-0123', '789 Pine St', 'Springfield', 'IL', '62701');
7
8
```

116 17:23:58 INSERT INTO Customers (CustomerID, FirstName, LastName, Email, Phone, Address, City, State, Zip) VALUES (101, 'Sarah', 'Wilson', 'sarah.wilson@email.com',...



```
-- Query 8: ON DELETE CASCADE demonstration
-- First, add the constraint (if not already present)

ALTER TABLE SupplierInventory
ADD CONSTRAINT fk_supplierinventory_suppliers
FOREIGN KEY (SupplierID) REFERENCES Suppliers(SupplierID)
ON DELETE CASCADE;
```

2 129 17:58:32 ALTER TABLE SupplierInventory ADD CONSTRAINT fk_supplierinventory_suppliers FOREI... 81 row(s) affected Records: 81 Duplicates: 0 Warnings: 0

```
imit to 1000 rows 

-- Then delete a supplier

-- Purpose: Demonstrate how deleting a supplier cascades to SupplierInventory

-- Status: Works - Deletes supplier and all related inventory records

DELETE FROM Suppliers

WHERE SupplierID = 3;
```

133 18:00:16 DELETE FROM Suppliers WHERE SupplierID = 3

1 row(s) affected