

### **Data Science and AI-ML Upskilling Program**

***for Harman International***

**Post Class Assignments SQL**

Confidential StackRoute© An NIIT Venture Page 1 of 3

All Information within this document is Intellectual property of StackRoute (NIIT Ltd). No part of this document or the program design or program structure mentioned within can be shared or used within any organization without the permission of StackRoute (NIIT Ltd).

1



# 

**Creating the Table**

Use <database name>

CREATE TABLE products (

product\_id smallint NOT NULL PRIMARY KEY,

product\_name character varying(40) NOT NULL,

supplier\_id smallint,

category\_id smallint,

quantity\_per\_unit character varying(20),

unit\_price real,

units\_in\_stock smallint,

units\_on\_order smallint,

reorder\_level smallint,

discontinued integer NOT NULL,

);

**Populating the table**

INSERT INTO products VALUES (1, 'Chai', 8, 1, '10 boxes x 30 bags', 18, 39, 0, 10, 1);

INSERT INTO products VALUES (2, 'Chang', 1, 1, '24 - 12 oz bottles', 19, 17, 40, 25, 1);

INSERT INTO products VALUES (3, 'Aniseed Syrup', 1, 2, '12 - 550 ml bottles', 10, 13, 70, 25, 0);

INSERT INTO products VALUES (4, 'Chef Anton''s Cajun Seasoning', 2, 2, '48 - 6 oz jars', 22, 53, 0, 0, 0);

INSERT INTO products VALUES (5, 'Chef Anton''s Gumbo Mix', 2, 2, '36 boxes', 21.3500004, 0, 0, 0, 1);

INSERT INTO products VALUES (6, 'Grandma''s Boysenberry Spread', 3, 2, '12 - 8 oz jars', 25, 120, 0, 25, 0);

INSERT INTO products VALUES (7, 'Uncle Bob''s Organic Dried Pears', 3, 7, '12 - 1 lb pkgs.', 30, 15, 0, 10, 0);

INSERT INTO products VALUES (8, 'Northwoods Cranberry Sauce', 3, 2, '12 - 12 oz jars', 40, 6, 0, 0, 0);

INSERT INTO products VALUES (9, 'Mishi Kobe Niku', 4, 6, '18 - 500 g pkgs.', 97, 29, 0, 0, 1);

INSERT INTO products VALUES (10, 'Ikura', 4, 8, '12 - 200 ml jars', 31, 31, 0, 0, 0);

INSERT INTO products VALUES (11, 'Queso Cabrales', 5, 4, '1 kg pkg.', 21, 22, 30, 30, 0);

INSERT INTO products VALUES (12, 'Queso Manchego La Pastora', 5, 4, '10 - 500 g pkgs.', 38, 86, 0, 0, 0);

INSERT INTO products VALUES (13, 'Konbu', 6, 8, '2 kg box', 6, 24, 0, 5, 0);

INSERT INTO products VALUES (14, 'Tofu', 6, 7, '40 - 100 g pkgs.', 23.25, 35, 0, 0, 0);

INSERT INTO products VALUES (15, 'Genen Shouyu', 6, 2, '24 - 250 ml bottles', 13, 39, 0, 5, 0);

INSERT INTO products VALUES (16, 'Pavlova', 7, 3, '32 - 500 g boxes', 17.4500008, 29, 0, 10, 0);

INSERT INTO products VALUES (17, 'Alice Mutton', 7, 6, '20 - 1 kg tins', 39, 0, 0, 0, 1);

INSERT INTO products VALUES (18, 'Carnarvon Tigers', 7, 8, '16 kg pkg.', 62.5, 42, 0, 0, 0);

INSERT INTO products VALUES (19, 'Teatime Chocolate Biscuits', 8, 3, '10 boxes x 12 pieces', 9.19999981, 25, 0, 5, 0);

INSERT INTO products VALUES (20, 'Sir Rodney''s Marmalade', 8, 3, '30 gift boxes', 81, 40, 0, 0, 0);

INSERT INTO products VALUES (21, 'Sir Rodney''s Scones', 8, 3, '24 pkgs. x 4 pieces', 10, 3, 40, 5, 0);

INSERT INTO products VALUES (22, 'Gustaf''s Knäckebröd', 9, 5, '24 - 500 g pkgs.', 21, 104, 0, 25, 0);

INSERT INTO products VALUES (23, 'Tunnbröd', 9, 5, '12 - 250 g pkgs.', 9, 61, 0, 25, 0);

INSERT INTO products VALUES (24, 'Guaraná Fantástica', 10, 1, '12 - 355 ml cans', 4.5, 20, 0, 0, 1);

INSERT INTO products VALUES (25, 'NuNuCa Nuß-Nougat-Creme', 11, 3, '20 - 450 g glasses', 14, 76, 0, 30, 0);

INSERT INTO products VALUES (26, 'Gumbär Gummibärchen', 11, 3, '100 - 250 g bags', 31.2299995, 15, 0, 0, 0);

INSERT INTO products VALUES (27, 'Schoggi Schokolade', 11, 3, '100 - 100 g pieces', 43.9000015, 49, 0, 30, 0);

INSERT INTO products VALUES (28, 'Rössle Sauerkraut', 12, 7, '25 - 825 g cans', 45.5999985, 26, 0, 0, 1);

INSERT INTO products VALUES (29, 'Thüringer Rostbratwurst', 12, 6, '50 bags x 30 sausgs.', 123.790001, 0, 0, 0, 1);

INSERT INTO products VALUES (30, 'Nord-Ost Matjeshering', 13, 8, '10 - 200 g glasses', 25.8899994, 10, 0, 15, 0);

INSERT INTO products VALUES (31, 'Gorgonzola Telino', 14, 4, '12 - 100 g pkgs', 12.5, 0, 70, 20, 0);

INSERT INTO products VALUES (32, 'Mascarpone Fabioli', 14, 4, '24 - 200 g pkgs.', 32, 9, 40, 25, 0);

INSERT INTO products VALUES (33, 'Geitost', 15, 4, '500 g', 2.5, 112, 0, 20, 0);

INSERT INTO products VALUES (34, 'Sasquatch Ale', 16, 1, '24 - 12 oz bottles', 14, 111, 0, 15, 0);

INSERT INTO products VALUES (35, 'Steeleye Stout', 16, 1, '24 - 12 oz bottles', 18, 20, 0, 15, 0);

INSERT INTO products VALUES (36, 'Inlagd Sill', 17, 8, '24 - 250 g jars', 19, 112, 0, 20, 0);

INSERT INTO products VALUES (37, 'Gravad lax', 17, 8, '12 - 500 g pkgs.', 26, 11, 50, 25, 0);

INSERT INTO products VALUES (38, 'Côte de Blaye', 18, 1, '12 - 75 cl bottles', 263.5, 17, 0, 15, 0);

INSERT INTO products VALUES (39, 'Chartreuse verte', 18, 1, '750 cc per bottle', 18, 69, 0, 5, 0);

INSERT INTO products VALUES (40, 'Boston Crab Meat', 19, 8, '24 - 4 oz tins', 18.3999996, 123, 0, 30, 0);

INSERT INTO products VALUES (41, 'Jack''s New England Clam Chowder', 19, 8, '12 - 12 oz cans', 9.64999962, 85, 0, 10, 0);

INSERT INTO products VALUES (42, 'Singaporean Hokkien Fried Mee', 20, 5, '32 - 1 kg pkgs.', 14, 26, 0, 0, 1);

INSERT INTO products VALUES (43, 'Ipoh Coffee', 20, 1, '16 - 500 g tins', 46, 17, 10, 25, 0);

INSERT INTO products VALUES (44, 'Gula Malacca', 20, 2, '20 - 2 kg bags', 19.4500008, 27, 0, 15, 0);

INSERT INTO products VALUES (45, 'Rogede sild', 21, 8, '1k pkg.', 9.5, 5, 70, 15, 0);

INSERT INTO products VALUES (46, 'Spegesild', 21, 8, '4 - 450 g glasses', 12, 95, 0, 0, 0);

INSERT INTO products VALUES (47, 'Zaanse koeken', 22, 3, '10 - 4 oz boxes', 9.5, 36, 0, 0, 0);

INSERT INTO products VALUES (48, 'Chocolade', 22, 3, '10 pkgs.', 12.75, 15, 70, 25, 0);

INSERT INTO products VALUES (49, 'Maxilaku', 23, 3, '24 - 50 g pkgs.', 20, 10, 60, 15, 0);

INSERT INTO products VALUES (50, 'Valkoinen suklaa', 23, 3, '12 - 100 g bars', 16.25, 65, 0, 30, 0);

INSERT INTO products VALUES (51, 'Manjimup Dried Apples', 24, 7, '50 - 300 g pkgs.', 53, 20, 0, 10, 0);

INSERT INTO products VALUES (52, 'Filo Mix', 24, 5, '16 - 2 kg boxes', 7, 38, 0, 25, 0);

INSERT INTO products VALUES (53, 'Perth Pasties', 24, 6, '48 pieces', 32.7999992, 0, 0, 0, 1);

INSERT INTO products VALUES (54, 'Tourtière', 25, 6, '16 pies', 7.44999981, 21, 0, 10, 0);

INSERT INTO products VALUES (55, 'Pâté chinois', 25, 6, '24 boxes x 2 pies', 24, 115, 0, 20, 0);

INSERT INTO products VALUES (56, 'Gnocchi di nonna Alice', 26, 5, '24 - 250 g pkgs.', 38, 21, 10, 30, 0);

INSERT INTO products VALUES (57, 'Ravioli Angelo', 26, 5, '24 - 250 g pkgs.', 19.5, 36, 0, 20, 0);

INSERT INTO products VALUES (58, 'Escargots de Bourgogne', 27, 8, '24 pieces', 13.25, 62, 0, 20, 0);

INSERT INTO products VALUES (59, 'Raclette Courdavault', 28, 4, '5 kg pkg.', 55, 79, 0, 0, 0);

INSERT INTO products VALUES (60, 'Camembert Pierrot', 28, 4, '15 - 300 g rounds', 34, 19, 0, 0, 0);

INSERT INTO products VALUES (61, 'Sirop d''érable', 29, 2, '24 - 500 ml bottles', 28.5, 113, 0, 25, 0);

INSERT INTO products VALUES (62, 'Tarte au sucre', 29, 3, '48 pies', 49.2999992, 17, 0, 0, 0);

INSERT INTO products VALUES (63, 'Vegie-spread', 7, 2, '15 - 625 g jars', 43.9000015, 24, 0, 5, 0);

INSERT INTO products VALUES (64, 'Wimmers gute Semmelknödel', 12, 5, '20 bags x 4 pieces', 33.25, 22, 80, 30, 0);

INSERT INTO products VALUES (65, 'Louisiana Fiery Hot Pepper Sauce', 2, 2, '32 - 8 oz bottles', 21.0499992, 76, 0, 0, 0);

INSERT INTO products VALUES (66, 'Louisiana Hot Spiced Okra', 2, 2, '24 - 8 oz jars', 17, 4, 100, 20, 0);

INSERT INTO products VALUES (67, 'Laughing Lumberjack Lager', 16, 1, '24 - 12 oz bottles', 14, 52, 0, 10, 0);

INSERT INTO products VALUES (68, 'Scottish Longbreads', 8, 3, '10 boxes x 8 pieces', 12.5, 6, 10, 15, 0);

INSERT INTO products VALUES (69, 'Gudbrandsdalsost', 15, 4, '10 kg pkg.', 36, 26, 0, 15, 0);

INSERT INTO products VALUES (70, 'Outback Lager', 7, 1, '24 - 355 ml bottles', 15, 15, 10, 30, 0);

INSERT INTO products VALUES (71, 'Flotemysost', 15, 4, '10 - 500 g pkgs.', 21.5, 26, 0, 0, 0);

INSERT INTO products VALUES (72, 'Mozzarella di Giovanni', 14, 4, '24 - 200 g pkgs.', 34.7999992, 14, 0, 0, 0);

INSERT INTO products VALUES (73, 'Röd Kaviar', 17, 8, '24 - 150 g jars', 15, 101, 0, 5, 0);

INSERT INTO products VALUES (74, 'Longlife Tofu', 4, 7, '5 kg pkg.', 10, 4, 20, 5, 0);

INSERT INTO products VALUES (75, 'Rhönbräu Klosterbier', 12, 1, '24 - 0.5 l bottles', 7.75, 125, 0, 25, 0);

INSERT INTO products VALUES (76, 'Lakkalikööri', 23, 1, '500 ml', 18, 57, 0, 20, 0);

INSERT INTO products VALUES (77, 'Original Frankfurter grüne Soße', 12, 2, '12 boxes', 13, 32, 0, 15, 0);

**Queries**

1. Write a query to get Product name and quantity/unit.
2. Write a query to get current Product list (Product ID and name).
3. Write a query to get discontinued Product list (Product ID and name).
4. Write a query to get most expense and least expensive Product list (name and unit price).
5. Write a query to get Product list (id, name, unit price) where current products cost less than $20.
6. Write a query to get Product list (id, name, unit price) where products cost between $15 and $25.
7. Write a query to get Product list (name, unit price) of above average price.
8. Write a query to get Product list (name, unit price) of ten most expensive products.
9. Write a query to count current and discontinued products.
10. Write a query to get Product list (name, units on order , units in stock) of stock is less than the quantity on order.