**Case Study – Burger Bash**

CREATE DATABASE burger\_bash;

USE burger\_bash;

CREATE TABLE burger\_names (

burger\_id INT PRIMARY KEY,

burger\_name VARCHAR(100));

INSERT INTO burger\_names VALUES

(1, 'Beef Burger'),

(2, 'Vegetarian Burger'),

(3, 'Chicken Burger'),

(4, 'Meatlovers Burger');

CREATE TABLE burger\_runner (

runner\_id INT PRIMARY KEY,

registration\_date DATE);

INSERT INTO burger\_runner VALUES

(1, '2022-01-01'),

(2, '2022-01-08'),

(3, '2022-01-15');

--DROP TABLE IF EXISTS runner\_orders;

--DROP TABLE IF EXISTS customer\_orders;

CREATE TABLE customer\_orders (

order\_id INT,

customer\_id INT,

burger\_id INT,

exclusions VARCHAR(100),

extras VARCHAR(100),

order\_time DATETIME);

CREATE TABLE runner\_orders (

order\_id INT,

runner\_id INT,

pickup\_time DATETIME,

distance VARCHAR(20),

duration VARCHAR(20),

cancellation VARCHAR(20));

INSERT INTO customer\_orders (order\_id, customer\_id, burger\_id, exclusions, extras, order\_time) VALUES

(101, 1, 1, NULL, 'Cheese', '2022-01-05 12:00:00'),

(102, 1, 2, 'Onion', NULL, '2022-01-05 13:10:00'),

(103, 2, 2, NULL, NULL, '2022-01-06 14:05:00'),

(104, 3, 4, NULL, 'Bacon', '2022-01-07 12:05:00'),

(105, 2, 3, 'Lettuce', NULL, '2022-01-08 11:30:00'),

(106, 1, 4, NULL, NULL, '2022-01-08 14:23:00');

INSERT INTO runner\_orders (order\_id, runner\_id, pickup\_time, distance, duration, cancellation) VALUES

(101, 1, '2022-01-05 12:30:00', '5km', '30min', NULL),

(102, 2, '2022-01-05 13:40:00', '3km', '20min', NULL),

(103, 1, '2022-01-06 14:31:00', '6km', '33min', 'Cancelled'),

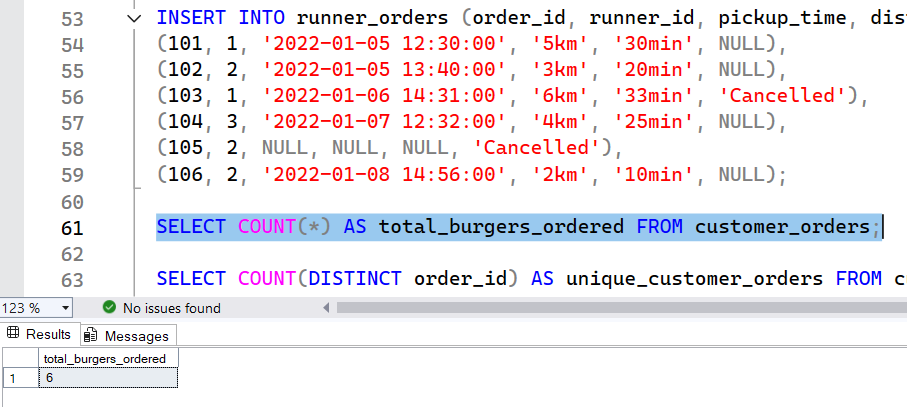
(104, 3, '2022-01-07 12:32:00', '4km', '25min', NULL),

(105, 2, NULL, NULL, NULL, 'Cancelled'),

(106, 2, '2022-01-08 14:56:00', '2km', '10min', NULL);

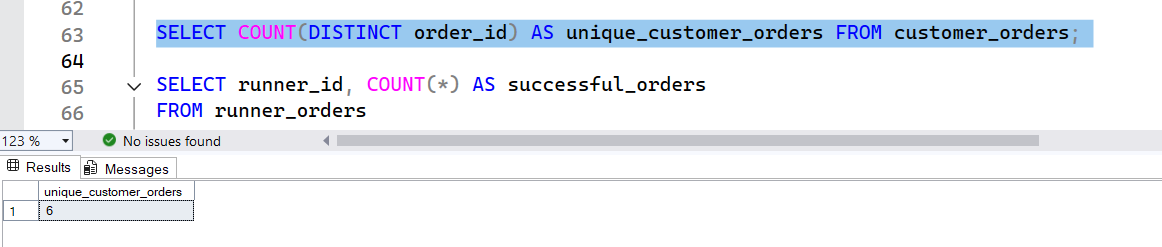
1. **How many burgers were ordered?**

SELECT COUNT(\*) AS total\_burgers\_ordered FROM customer\_orders;



1. **How many unique customer orders were made?**

SELECT COUNT(DISTINCT order\_id) AS unique\_customer\_orders FROM customer\_orders;



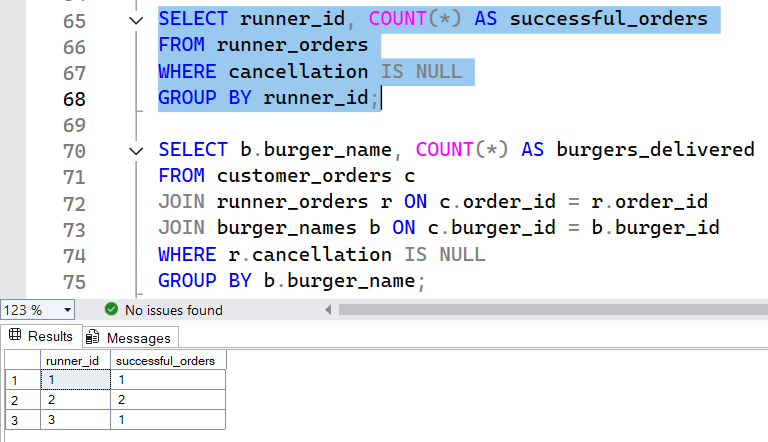
1. **How many successful orders were delivered by each runner?**

SELECT runner\_id, COUNT(\*) AS successful\_orders

FROM runner\_orders

WHERE cancellation IS NULL

GROUP BY runner\_id;



1. **How many of each type of burger was delivered?**

SELECT b.burger\_name, COUNT(\*) AS burgers\_delivered

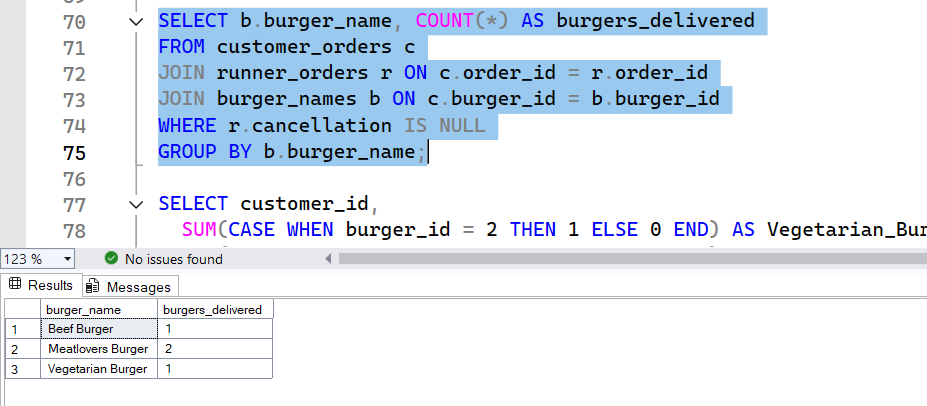
FROM customer\_orders c

JOIN runner\_orders r ON c.order\_id = r.order\_id

JOIN burger\_names b ON c.burger\_id = b.burger\_id

WHERE r.cancellation IS NULL

GROUP BY b.burger\_name;



1. **How many Vegetarian and Meatlovers were ordered by each customer?**

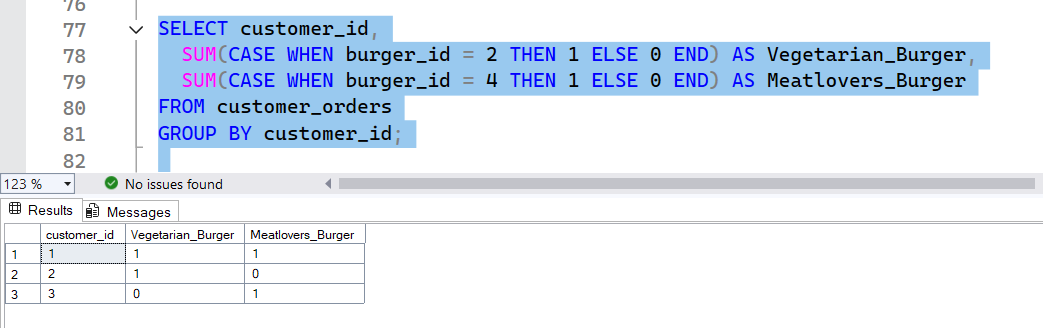
SELECT customer\_id,

SUM(CASE WHEN burger\_id = 2 THEN 1 ELSE 0 END) AS Vegetarian\_Burger,

SUM(CASE WHEN burger\_id = 4 THEN 1 ELSE 0 END) AS Meatlovers\_Burger

FROM customer\_orders

GROUP BY customer\_id;



**Submitted by**

Siva Balan T