**Case Study – SQL**

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**Date : 09-11-2024**

**--Creating DataBase**

create database burger\_bash

use burger\_bash

**--Creating Table Customer\_orders**

CREATE TABLE customer\_orders(

order\_id INTEGER NOT NULL

,customer\_id INTEGER NOT NULL

,burger\_id INTEGER NOT NULL

,exclusions VARCHAR(4)

,extras VARCHAR(4)

,order\_time datetime null

);

alter table customer\_orders add constraint pkk1 primary key (order\_id,burger\_id)

**--Creating tale Burger\_names**

CREATE TABLE burger\_names(

burger\_id INTEGER NOT NULL PRIMARY KEY

,burger\_name VARCHAR(10) NOT NULL

);

**--Creating Table Burger\_runner**

CREATE TABLE burger\_runner(

runner\_id INTEGER NOT NULL PRIMARY KEY

,registration\_date date NOT NULL

);

**--Creating table runner\_orders**

CREATE TABLE runner\_orders(

order\_id INTEGER NOT NULL PRIMARY KEY

,runner\_id INTEGER NOT NULL

,pickup\_time datetime

,distance VARCHAR(7)

,duration VARCHAR(10)

,cancellation VARCHAR(23)

);

alter table runner\_orders add constraint fk1 foreign key (runner\_id) references burger\_runner(runner\_id)

**--Inserting records into each table**

INSERT INTO customer\_orders VALUES (1,101,1,NULL,NULL,'2021-01-01 18:05:02');

INSERT INTO customer\_orders VALUES (2,101,1,NULL,NULL,'2021-01-01 19:00:52');

INSERT INTO customer\_orders VALUES (3,102,1,NULL,NULL,'2021-01-02 23:51:23');

INSERT INTO customer\_orders VALUES (3,102,2,NULL,NULL,'2021-01-02 23:51:23');

INSERT INTO customer\_orders VALUES (4,103,1,'4',NULL,'2021-01-04 13:23:46');

INSERT INTO customer\_orders VALUES (4,103,2,'4',NULL,'2021-01-04 13:23:46');

INSERT INTO customer\_orders VALUES (5,104,1,NULL,'1','2021-01-08 21:00:29');

INSERT INTO customer\_orders VALUES (6,101,2,NULL,NULL,'2021-01-08 21:03:13');

INSERT INTO customer\_orders VALUES (7,105,2,NULL,'1','2021-01-08 21:20:29');

INSERT INTO customer\_orders VALUES (8,102,1,NULL,NULL,'2021-01-09 23:54:33');

INSERT INTO customer\_orders VALUES (9,103,1,'4','1, 5','2021-01-10 11:22:59');

INSERT INTO customer\_orders VALUES (10,104,1,NULL,NULL,'2021-01-11 18:34:49');

INSERT INTO customer\_orders VALUES (10,104,2,'2, 6','1, 4','2021-01-11 18:34:49');

INSERT INTO burger\_names(burger\_id,burger\_name) VALUES (1,'Meatlovers');

INSERT INTO burger\_names(burger\_id,burger\_name) VALUES (2,'Vegetarian');

INSERT INTO burger\_runner VALUES (1,'2021-01-01');

INSERT INTO burger\_runner VALUES (2,'2021-01-03');

INSERT INTO burger\_runner VALUES (3,'2021-01-08');

INSERT INTO burger\_runner VALUES (4,'2021-01-15');

INSERT INTO runner\_orders VALUES (1,1,'2021-01-01 18:15:34','20km','32 minutes',NULL);

INSERT INTO runner\_orders VALUES (2,1,'2021-01-01 19:10:54','20km','27 minutes',NULL);

INSERT INTO runner\_orders VALUES (3,1,'2021-01-03 00:12:37','13.4km','20 mins',NULL);

INSERT INTO runner\_orders VALUES (4,2,'2021-01-04 13:53:03','23.4','40',NULL);

INSERT INTO runner\_orders VALUES (5,3,'2021-01-08 21:10:57','10','15',NULL);

INSERT INTO runner\_orders VALUES (6,3,NULL,NULL,NULL,'Restaurant Cancellation');

INSERT INTO runner\_orders VALUES (7,2,'2021-01-08 21:30:45','25km','25mins',NULL);

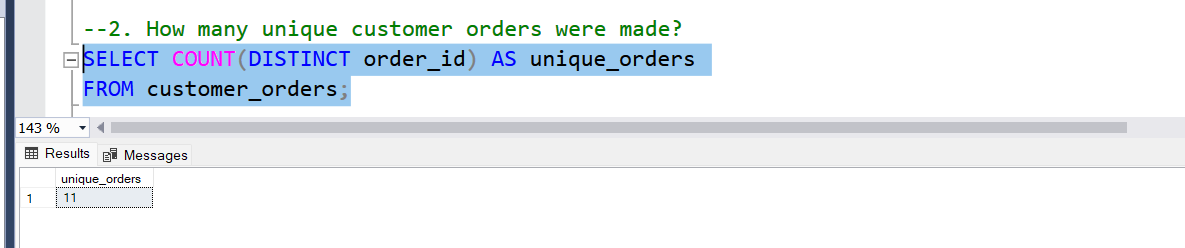
INSERT INTO runner\_orders VALUES (8,2,'2021-01-10 00:15:02','23.4 km','15 minute',NULL);

INSERT INTO runner\_orders VALUES (9,2,NULL,NULL,NULL,'Customer Cancellation');

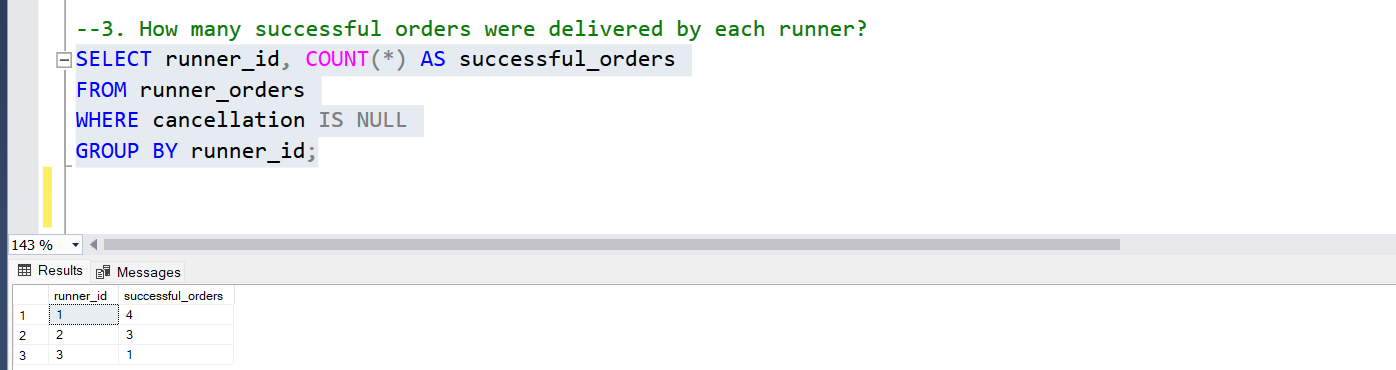
INSERT INTO runner\_orders VALUES (10,1,'2021-01-11 18:50:20','10km','10minutes',NULL);

**Queries**

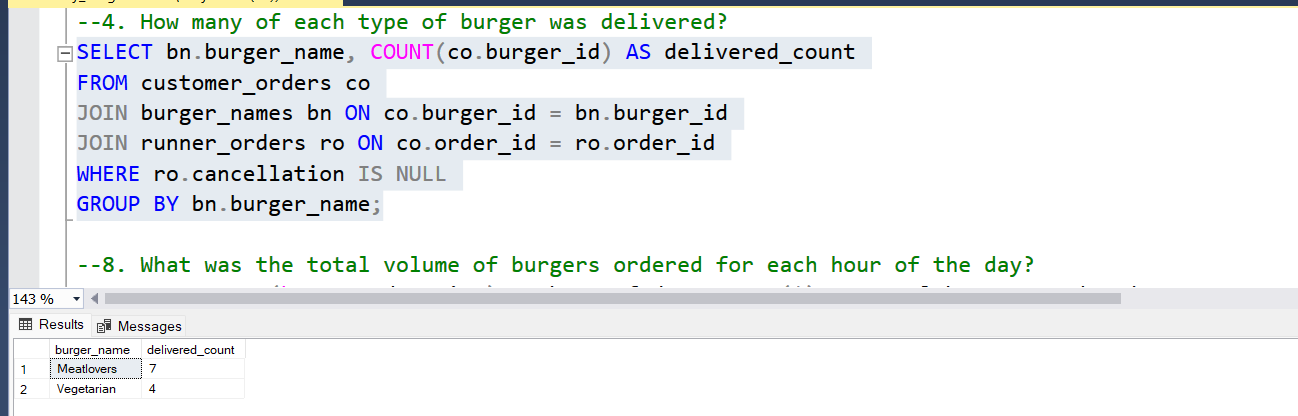
**2. How many unique customer orders were made?**

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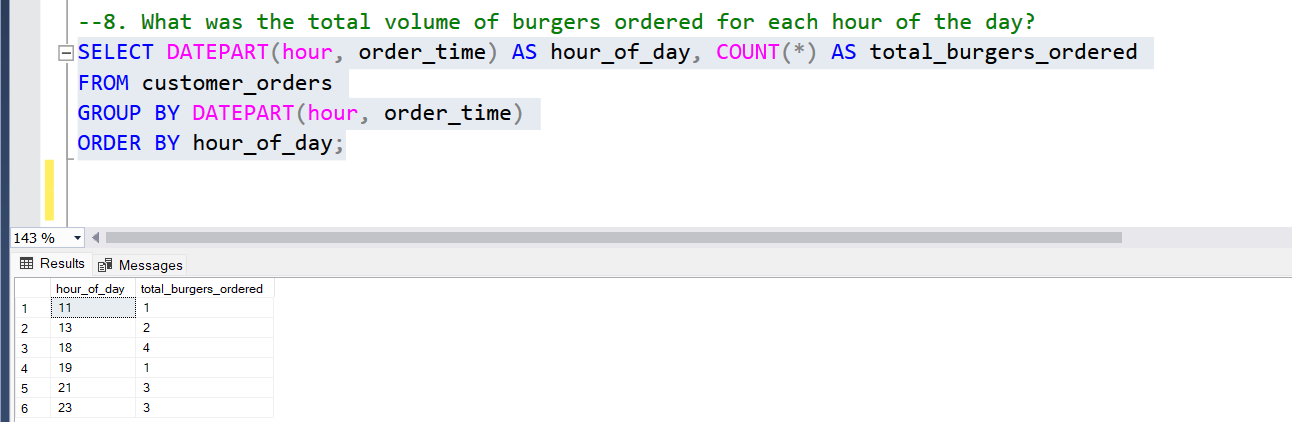
**3. How many successful orders were delivered by each runner?**

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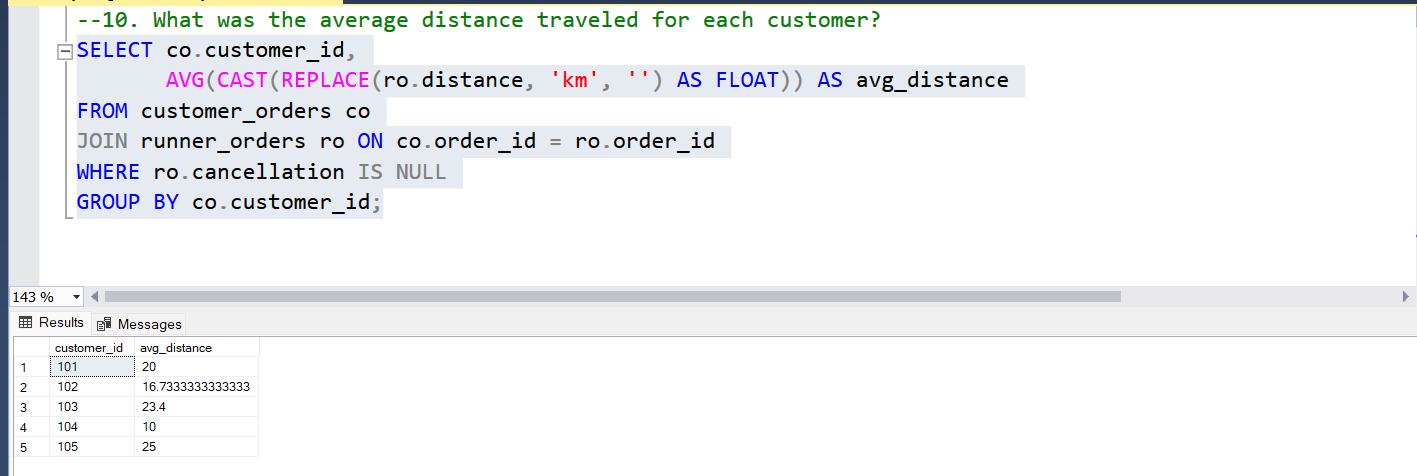
**4. How many of each type of burger was delivered?**

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**8. What was the total volume of burgers ordered for each hour of the day?**

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**10. What was the average distance travelled for each customer?**

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