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--Lab 10

--Create a view for Task 4 of Lab 9

CREATE VIEW Aircrafts\_Per\_Airline AS

SELECT DISTINCT

airports.name AS Airport\_Name,

airlines.name AS Airline\_Name,

aircrafts.description AS Aircraft\_Description

FROM routes

JOIN airports ON routes.source\_airport\_id = airports.id

JOIN airlines ON routes.airline\_id = airlines.id

JOIN route\_aircrafts ON routes.id = route\_aircrafts.route\_id

JOIN aircrafts ON route\_aircrafts.aircraft\_id = aircrafts.id

WHERE airports.name = 'Lester B Pearson Intl';

--Query to crate Materialized View on the airports table for country\_id 208

CREATE MATERIALIZED VIEW Airports\_Country\_208 AS

SELECT

id,

name,

city,

country\_id

FROM airports

WHERE country\_id = 208

ORDER BY city;

--

INSERT INTO airports (id, name, city, x, y, country\_id)

VALUES (9910, 'Kanata Airport', 'Kanata', -75, 45, 208);

-- Query to select the inserted record from airports table

SELECT \*

FROM airports

WHERE id = 9910;

-- Query to select the record from the materialized view

SELECT \*

FROM Airports\_Country\_208

WHERE id = 9910;

-- Query to Refresh the Materialized View

REFRESH MATERIALIZED VIEW Airports\_Country\_208;

-- Query to check if the materialized view is updated

SELECT \*

FROM Airports\_Country\_208

WHERE id = 9910;

-- Query to create an index on the city column of airports table

CREATE INDEX idx\_airports\_city ON airports(city);