CREATE TABLE traffic\_data (

road VARCHAR2(50),

traffic\_date DATE,

traffic\_time TIMESTAMP,

traffic\_volume INTEGER,

weather\_condition VARCHAR2(20),

vehicle\_type\_breakdown VARCHAR2(4000)

);

INSERT INTO traff\_data (road, traffic\_date, traffic\_time, traffic\_volume, weather\_condition, vehicle\_type\_breakdown) VALUES

('Highway A1', '2024-07-10', '2024-07-10 07:30', 1100, NULL, NULL),

('Highway A2', '2024-07-11', '2024-07-11 08:30', 900, NULL, NULL),

('Highway A1', '2024-07-11', '2024-07-11 08:00', 1200, 'Clear', '{"car": 800, "truck": 300, "motorcycle": 100}'),

('Highway A3', '2024-07-12', '2024-07-12 09:00', 800, NULL, NULL),

('Highway A1', '2024-07-11', '2024-07-11 10:00', 1300, NULL, NULL);

INSERT INTO traffic\_data (road, traffic\_date, traffic\_time, traffic\_volume, weather\_condition, vehicle\_type\_breakdown) VALUES

('Highway A1', '2024-07-11', '2024-07-11 08:00', 1200, 'Clear', '{"car":800, "truck":300,"motorcycle":100}');

SELECT \*

FROM Traffic\_data

LIMIT 1;

SELECT \*

FROM Traffic\_data

WHERE traffic\_volume > 1000

UPDATE Traffic\_data

SET traffic\_volume = 1200

where road = 'Highway A1'

and traffic\_date = '2024-07-11'

and traffic\_time BETWEEN '2024-07-11 08:00' AND '2024-07-11 10:00'

UPDATE traffic\_data

SET vehicle\_type\_breakdown = '{"car" : 850, "truck" : 330, "motorcycle" : 130}'

WHERE traffic\_volume = (

SELECT MAX(traffic\_volume)

FROM Traffic\_data

);

Delete FROM Traffic\_data

WHERE weather\_condition = = 'Rainy';

DELETE FROM Traffic\_data

WHERE traffic\_volume <= 500

AND traffic\_date = = '2024-07-11'