ST10291856 Mvelo Mkhize

Database Formation

CREATE TABLE Agent (

Agent\_Id VARCHAR(5) PRIMARY KEY,

Agent\_Name VARCHAR(50)

);

INSERT INTO Agent (Agent\_Id, Agent\_Name) VALUES

('ID01', 'Sli'),

('ID02', 'Bob'),

('ID03', 'Khaya'),

('ID04', 'Noxi'),

('ID05', 'Bongani');

CREATE TABLE Customer (

Cust\_Id VARCHAR(5) PRIMARY KEY,

Cust\_Name VARCHAR(50),

Suburb VARCHAR(50),

Budget DECIMAL(10, 2),

Agent\_Id VARCHAR(5),

FOREIGN KEY (Agent\_Id) REFERENCES Agent(Agent\_Id)

);

INSERT INTO Customer (Cust\_Id, Cust\_Name, Suburb, Budget, Agent\_Id) VALUES

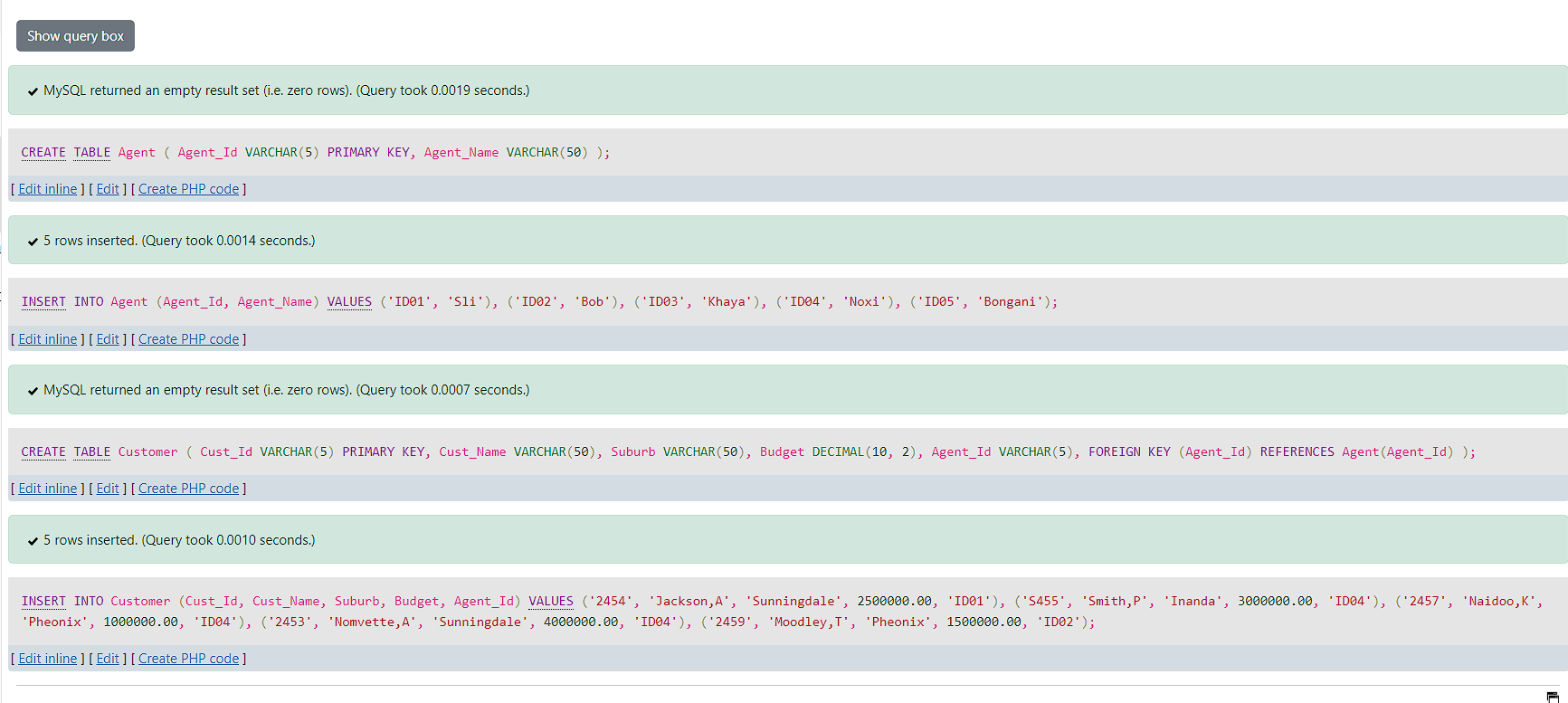
('2454', 'Jackson,A', 'Sunningdale', 2500000.00, 'ID01'),

('S455', 'Smith,P', 'Inanda', 3000000.00, 'ID04'),

('2457', 'Naidoo,K', 'Pheonix', 1000000.00, 'ID04'),

('2453', 'Nomvette,A', 'Sunningdale', 4000000.00, 'ID04'),

('2459', 'Moodley,T', 'Pheonix', 1500000.00, 'ID02');



2.1.1

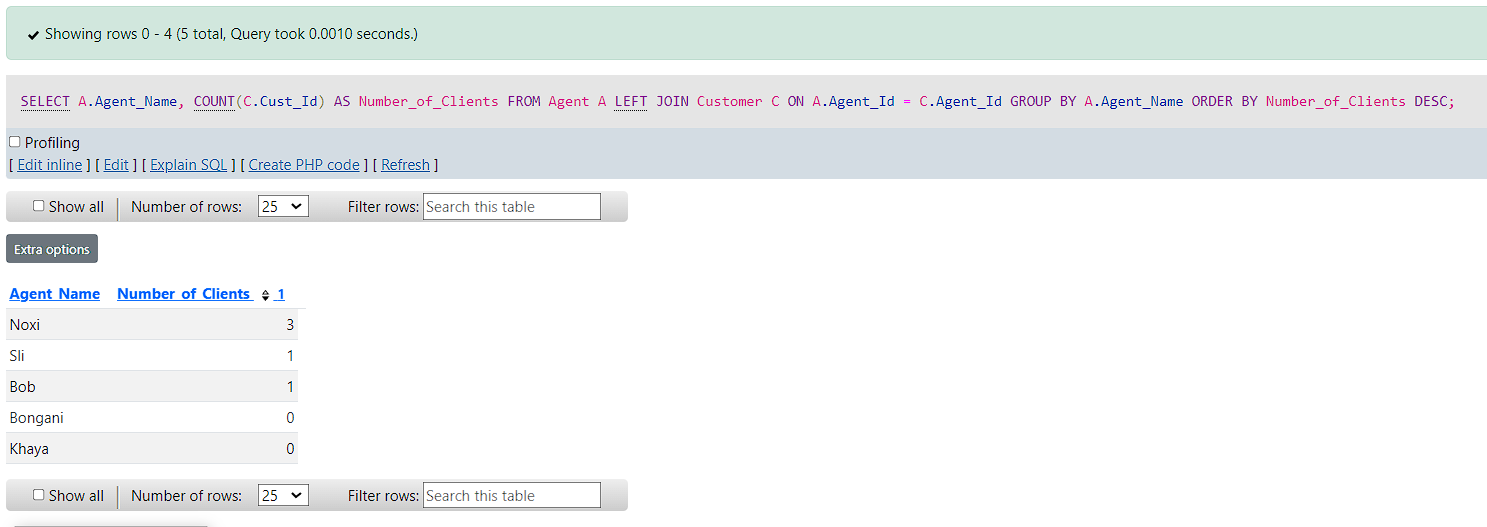
SELECT A.Agent\_Name, COUNT(C.Cust\_Id) AS Number\_of\_Clients

FROM Agent A

LEFT JOIN Customer C ON A.Agent\_Id = C.Agent\_Id

GROUP BY A.Agent\_Name

ORDER BY Number\_of\_Clients DESC;



2.1.2

SELECT Agent\_Id

FROM Agent

WHERE Agent\_Id NOT IN (SELECT Agent\_Id FROM Customer);

