ST10291856 Database Class Activity

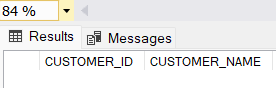
CREATE DATABASE ACCOMMODATION;

CREATE TABLE CUSTOMERS(

CUSTOMER\_ID VARCHAR(10) NOT NULL PRIMARY KEY,

CUSTOMER\_NAME VARCHAR(50) NOT NULL

);



CREATE TABLE VENUES(

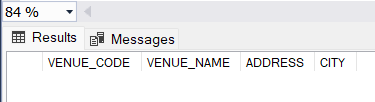
VENUE\_CODE VARCHAR(5) NOT NULL PRIMARY KEY,

VENUE\_NAME VARCHAR(50) NOT NULL,

ADDRESS VARCHAR(50) NOT NULL,

CITY VARCHAR(50) NOT NULL

);



CREATE TABLE ACCOMMODATION\_BOOKINGS(

CUSTOMER\_ID VARCHAR(10) NOT NULL,

VENUE\_CODE VARCHAR(5) NOT NULL,

CHECKIN\_DATE DATE NOT NULL,

NIGHTS SMALLINT NOT NULL,

RATE SMALLMONEY NOT NULL,

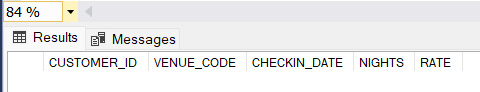
FOREIGN KEY (CUSTOMER\_ID) REFERENCES

CUSTOMERS(CUSTOMER\_ID),

FOREIGN KEY (VENUE\_CODE) REFERENCES

VENUES(VENUE\_CODE)

);



INSERT INTO CUSTOMERS

VALUES

('123456', 'Neo Petlele'),

('246810', 'Derek Moore'),

('369121', 'Pedro Ntaba'),

('654321', 'Thabo Joe'),

('987654', 'Dominique Woolridge');

A screenshot of a computer

Description automatically generated

INSERT INTO VENUES

VALUES

('V0001', 'Durbs Bed and Breakfast', '12 Radar Drive', 'Durban'),

('V0002', 'Jacaranda Guesthouse', '116 Clearwater Road', 'Pretoria'),

('V0003', 'Sandton Sun', '1 Waterstone Drive', 'Sandton'),

('V0004', 'Friendly City Hotel', '2 Ring Road', 'Port Elizabeth'),

('V0005', 'Belmont Self Catering', '1 Belmont Road', 'Cape Town');

A white table with black text

Description automatically generated

INSERT INTO ACCOMMODATION\_BOOKINGS

VALUES

('123456', 'V0001', '2020‐10‐30', '3', '1500.00'),

('246810', 'V0005', '2020‐11‐19', '2', '980.00'),

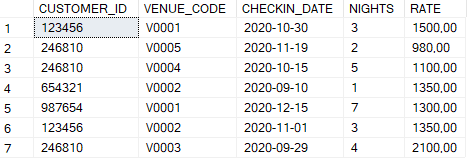
('246810', 'V0004', '2020‐10‐15', '5', '1100.00'),

('654321', 'V0002', '2020‐09‐10', '1', '1350.00'),

('987654', 'V0001', '2020‐12‐15', '7', '1300.00'),

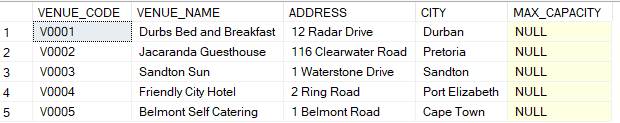
('123456', 'V0002', '2020‐11‐01', '3', '1350.00'),

('246810', 'V0003', '2020‐09‐29', '4', '2100.00');



ALTER TABLE VENUES

ADD MAX\_CAPACITY SMALLINT;



UPDATE VENUES

SET MAX\_CAPACITY ='2'

WHERE VENUE\_CODE='V0001';

UPDATE VENUES

SET MAX\_CAPACITY ='6'

WHERE VENUE\_CODE='V0002';

UPDATE VENUES

SET MAX\_CAPACITY ='4'

WHERE VENUE\_CODE='V0003';

UPDATE VENUES

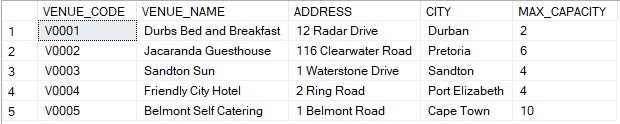
SET MAX\_CAPACITY ='4'

WHERE VENUE\_CODE='V0004';

UPDATE VENUES

SET MAX\_CAPACITY ='10'

WHERE VENUE\_CODE='V0005';



SELECT CUSTOMERS.CUSTOMER\_ID, CUSTOMERS.CUSTOMER\_NAME

FROM CUSTOMERS

LEFT JOIN ACCOMMODATION\_BOOKINGS ON CUSTOMERS.CUSTOMER\_ID = ACCOMMODATION\_BOOKINGS.CUSTOMER\_ID

WHERE ACCOMMODATION\_BOOKINGS.CUSTOMER\_ID IS NULL;



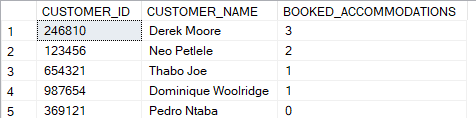
SELECT CUSTOMERS.CUSTOMER\_ID, CUSTOMERS.CUSTOMER\_NAME, COUNT(ACCOMMODATION\_BOOKINGS.CUSTOMER\_ID) AS BOOKED\_ACCOMMODATIONS

FROM CUSTOMERS

LEFT JOIN ACCOMMODATION\_BOOKINGS ON CUSTOMERS.CUSTOMER\_ID = ACCOMMODATION\_BOOKINGS.CUSTOMER\_ID

GROUP BY CUSTOMERS.CUSTOMER\_ID, CUSTOMERS.CUSTOMER\_NAME

ORDER BY BOOKED\_ACCOMMODATIONS DESC;



SELECT CUSTOMERS.CUSTOMER\_ID, CUSTOMERS.CUSTOMER\_NAME, ACCOMMODATION\_BOOKINGS.CHECKIN\_DATE, ACCOMMODATION\_BOOKINGS.NIGHTS

FROM CUSTOMERS

JOIN ACCOMMODATION\_BOOKINGS ON CUSTOMERS.CUSTOMER\_ID = ACCOMMODATION\_BOOKINGS.CUSTOMER\_ID

WHERE ACCOMMODATION\_BOOKINGS.NIGHTS = (

SELECT MAX(NIGHTS)

FROM ACCOMMODATION\_BOOKINGS

);

