CISC 332

QBnB Project Deliverable 1

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# Initial Assumptions

1. We have used Email as one of the primary keys for our Member table, restricting each email to being associated with one account on QBnB.
2. All Properties in the Property table must be owned by some member of QBnB.
3. One member may own multiple properties, but multiple members cannot own the same property.
4. Each property belongs to one and only one district, but a district may encompass multiple properties.
5. All bookings must be approved (or denied).
6. The member that owns a rentable property is able to approve (or deny) any bookings, and all bookings need only be approved once.
7. Owner\_ID corresponds to the Member\_ID of the owner of the property in question.
8. Any member may comment on a property, but the owner of the property is the only user who may reply directly to comments on their property.
9. Administrator accounts will be limited to five, and will be the first five accounts created in the Member table (Member\_IDs 1, 2, 3, 4 and 5).
10. When leaving feedback on a property, a comment is required, but a rating (out of five) is optional.

# Database Definition Language

CREATE DATABASE QBnB;

USE QBnB;

CREATE TABLE Member(

Member\_ID int NOT NULL AUTO\_INCREMENT,

F\_Name varchar(20) NOT NULL,

L\_Name varchar(20) NOT NULL,

Email varchar(50) NOT NULL DEFAULT " ",

Phone\_No bigint(15) NOT NULL,

Grad\_Year int(4) NOT NULL,

Faculty varchar(20) NOT NULL DEFAULT " ",

Degree\_Type char(10) NOT NULL DEFAULT " ",

Password varchar(18) NOT NULL DEFAULT " ",

PRIMARY KEY (Member\_ID, Email)

);

CREATE TABLE District(

District\_Name varchar(30) NOT NULL DEFAULT " ",

POI varchar(100) NOT NULL DEFAULT " ",

PRIMARY KEY (District\_Name)

);

CREATE TABLE Property(

Property\_ID int NOT NULL AUTO\_INCREMENT,

Owner\_ID int NOT NULL,

Street\_No int NOT NULL,

Street\_Name varchar(30) NOT NULL DEFAULT " ",

City varchar(30) NOT NULL DEFAULT " ",

Country varchar(30) NOT NULL DEFAULT " ",

Postal\_Code varchar(10) NOT NULL DEFAULT " " ,

District\_Name varchar(30) NOT NULL DEFAULT " " ,

Type varchar(15) NOT NULL DEFAULT " ",

Features varchar(100) NOT NULL DEFAULT " ",

Price float NOT NULL,

PRIMARY KEY (Property\_ID),

FOREIGN KEY (District\_Name) references District(District\_Name),

FOREIGN KEY (Owner\_ID) references Member(Member\_ID)

);

CREATE TABLE Booking(

Property\_ID int NOT NULL,

Booking\_Start datetime NOT NULL,

Booking\_End datetime NOT NULL,

Booking\_Status char(15) NOT NULL DEFAULT " ",

Member\_ID int NOT NULL,

Owner\_ID int NOT NULL,

PRIMARY KEY (Booking\_Start,Property\_ID),

FOREIGN KEY (Property\_ID) references Property(Property\_ID),

FOREIGN KEY (Member\_ID) references Member(Member\_ID),

FOREIGN KEY (Owner\_ID) references Property(Owner\_ID)

);

CREATE TABLE Comment(

Member\_ID int NOT NULL,

Property\_ID int NOT NULL,

Rating int DEFAULT NULL,

Comment\_Text varchar(500) NOT NULL,

Comment\_Time timestamp NOT NULL DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

Owner\_Reply varchar(500) DEFAULT NULL,

PRIMARY KEY (Member\_ID, Property\_ID),

FOREIGN KEY (Member\_ID) references Member(Member\_ID),

FOREIGN KEY (Property\_ID) references Property(Property\_ID)

);

# Database Create Statements & Table Dumps

USE QBnB;

#Fill Member

INSERT INTO Member (Member\_ID, F\_Name, L\_Name, Email, Phone\_No, Grad\_Year, Faculty, Degree\_Type, Password) VALUES (1, 'QBnB', 'Admin','admin@qbnb.ca', 6135336666, 2000, 'Computing', 'BComp', 'admin');

INSERT INTO Member (Member\_ID, F\_Name, L\_Name, Email, Phone\_No, Grad\_Year, Faculty, Degree\_Type, Password) VALUES (2, 'Vinyas','Harish','v.harish@queensu.ca', 6477675831, 2017,'Computing','BComp','vin');

INSERT INTO Member (Member\_ID, F\_Name, L\_Name ,Email, Phone\_No, Grad\_Year, Faculty, Degree\_Type, Password) VALUES (3, 'Zac', 'Baum', 'zac.baum@queensu.ca', 4163203344, 2017, 'Computing','BComp','zac');

INSERT INTO Member (Member\_ID, F\_Name, L\_Name ,Email, Phone\_No, Grad\_Year, Faculty, Degree\_Type, Password) VALUES (4, 'Patrick', 'Martin', 'martin@cs.queensu.ca', 6131113333, 2000, 'Computing','BComp','cisc332prof');

INSERT INTO Member (Member\_ID, F\_Name, L\_Name ,Email, Phone\_No, Grad\_Year, Faculty, Degree\_Type, Password) VALUES (5, 'Laura', 'Brooks', 'laura.brooks@queensu.ca', 4164359453, 2016, 'Computing','BComp','cisc332ta');

#Fill District

INSERT INTO District (District\_Name,POI) VALUES ('Annex','University of Toronto, Jewish Community Centre, Koreatown');

INSERT INTO District (District\_Name,POI) VALUES ('Beaches','Ashbridges Bay, Kew Gardens, Woodbine Beach, The Boardwalk, The Goof');

INSERT INTO District (District\_Name,POI) VALUES ('Cabbagetown','The School of Toronto Dance Theatre, Riverdale Farm');

INSERT INTO District (District\_Name,POI) VALUES ('Chinatown','Markets, Spadina Ave.');

INSERT INTO District (District\_Name,POI) VALUES ('Danforth','Greektown, Taste of the Danforth');

INSERT INTO District (District\_Name,POI) VALUES ('Distillery District','Mill Street Brewery, Gooderham and Worts Distillery, Toronto Christmas Market');

INSERT INTO District (District\_Name,POI) VALUES ('Entertainment District','Air Canada Centre, Rogers Center, CN Tower, Ripleys Aquarium');

INSERT INTO District (District\_Name,POI) VALUES ('Financial District','Union Station, First Canadian Place, Fairmont Place, Royal York Hotel, Trump Tower');

INSERT INTO District (District\_Name,POI) VALUES ('Forest Hill','Upper Canada College, Eglinton Theatre');

INSERT INTO District (District\_Name,POI) VALUES ('Gerrard Street East','Gerrard India Bazaar');

INSERT INTO District (District\_Name,POI) VALUES ('Harbourfront','Harbourfront Centre, Queens Quay, Jack Layton Ferry Terminal, Billy Bishop Airport');

INSERT INTO District (District\_Name,POI) VALUES ('High Park','High Park, Sunnyside Docks');

INSERT INTO District (District\_Name,POI) VALUES ('North Toronto','Yonge and Eglinton, Chaplin Estates');

INSERT INTO District (District\_Name,POI) VALUES ('Rosedale','The Studio Building, The Integral House');

INSERT INTO District (District\_Name,POI) VALUES ('St. Lawrence','St. Lawrence Market, St. Lawrence Hall, Sony Centre for the Performing Arts');

INSERT INTO District (District\_Name,POI) VALUES ('Scarborough City Centre','Scarborough Town Centre');

INSERT INTO District (District\_Name,POI) VALUES ('Yonge and Dundas','Eatons Centre, Four Seasons Center for the Performing Arts');

INSERT INTO District (District\_Name,POI) VALUES ('York Mills','York Mills Shopping Centre, Don Valley Golf Course');

#Fill Property

INSERT INTO Property (Property\_ID, Owner\_ID, Street\_No, Street\_Name, City, Country, Postal\_Code, District\_Name, Type, Features, Price) VALUES (1,1,12,'Brock Street','Toronto','Canada','M9A 4X6','Entertainment District', 'Apartment','1 bath, full kitchen',34.50);

INSERT INTO Property (Property\_ID, Owner\_ID, Street\_No, Street\_Name, City, Country, Postal\_Code, District\_Name, Type, Features, Price) VALUES (2,2,12,'Bay Street','Toronto','Canada','M4A 9X6','Financial District', 'Loft','2 floors, 2 kitchen, hot tub', 3000);

INSERT INTO Property (Property\_ID, Owner\_ID, Street\_No, Street\_Name, City, Country, Postal\_Code, District\_Name, Type, Features, Price) VALUES (3,1,50,'Gerrard Street','Toronto','Canada','M9A 4X1','Danforth', 'Basement','1 bath, full kitchen', 50);

INSERT INTO Property (Property\_ID, Owner\_ID, Street\_No, Street\_Name, City, Country, Postal\_Code, District\_Name, Type, Features, Price) VALUES (4,3,41,'Yonge Street','Toronto','Canada','M9A 4X9','North Toronto', 'Apartment','2 bath, full kitchen', 75);

INSERT INTO Property (Property\_ID, Owner\_ID, Street\_No, Street\_Name, City, Country, Postal\_Code, District\_Name, Type, Features, Price) VALUES (5,4,1891,'Quebec Avenue','Toronto','Canada','M6T 4Q9','High Park', 'House','2 bath, full kitchen', 15);

#Fill Booking

INSERT INTO Booking (Property\_ID, Booking\_Start, Booking\_End, Booking\_Status, Member\_ID, Owner\_ID) VALUES (1, '2016-03-11 12:00:00', '2016-03-13 15:00:00', 'Approved', 2, 4);

INSERT INTO Booking (Property\_ID, Booking\_Start, Booking\_End, Booking\_Status, Member\_ID, Owner\_ID) VALUES (3, '2016-06-11 12:30:00', '2016-06-16 13:00:00', 'Pending', 5, 3);

INSERT INTO Booking (Property\_ID, Booking\_Start, Booking\_End, Booking\_Status, Member\_ID, Owner\_ID) VALUES (2, '2016-02-14 12:00:00', '2016-02-15 11:00:00', 'Rejected', 3, 2);

#Fill Comment

INSERT INTO Comment (Member\_ID, Property\_ID, Rating, Comment\_Text, Owner\_Reply) VALUES (2, 3, 5, 'Great little spot very reasonably priced!','Glad to hear! Thank you for your visit!');

INSERT INTO Comment (Member\_ID, Property\_ID, Rating, Comment\_Text) VALUES (3, 4, 1, 'Worst experience I have ever had!');

INSERT INTO Comment (Member\_ID, Property\_ID, Rating, Comment\_Text) VALUES (5, 4, 4, 'Great place with an even better view!');

