

CISC 332

QBnB Project Deliverable 1

Zachary Baum 10090150

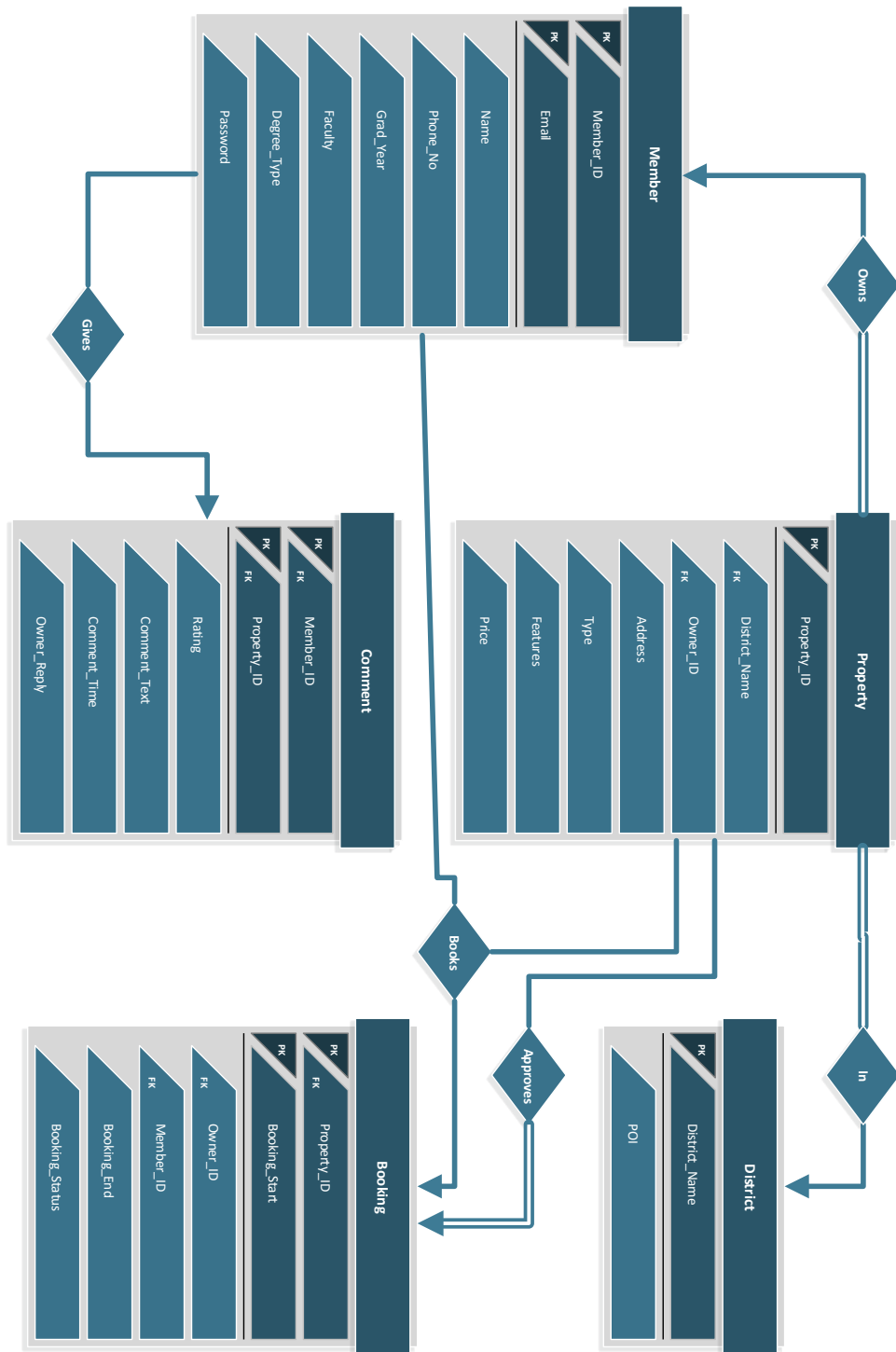
Vinyas Harish 10089169

February 11th 2016

Table of Contents

ENTITY RELATIONSHIP DIAGRAM	1
INITIAL ASSUMPTIONS	2
DATABASE DEFINITION LANGUAGE	3
DATABASE POPULATION STATEMENTS & TABLE DUMPS	5

Entity Relationship Diagram



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!');

```