

CISC 332

QBnB Project Deliverable 1

Zachary Baum 10090150

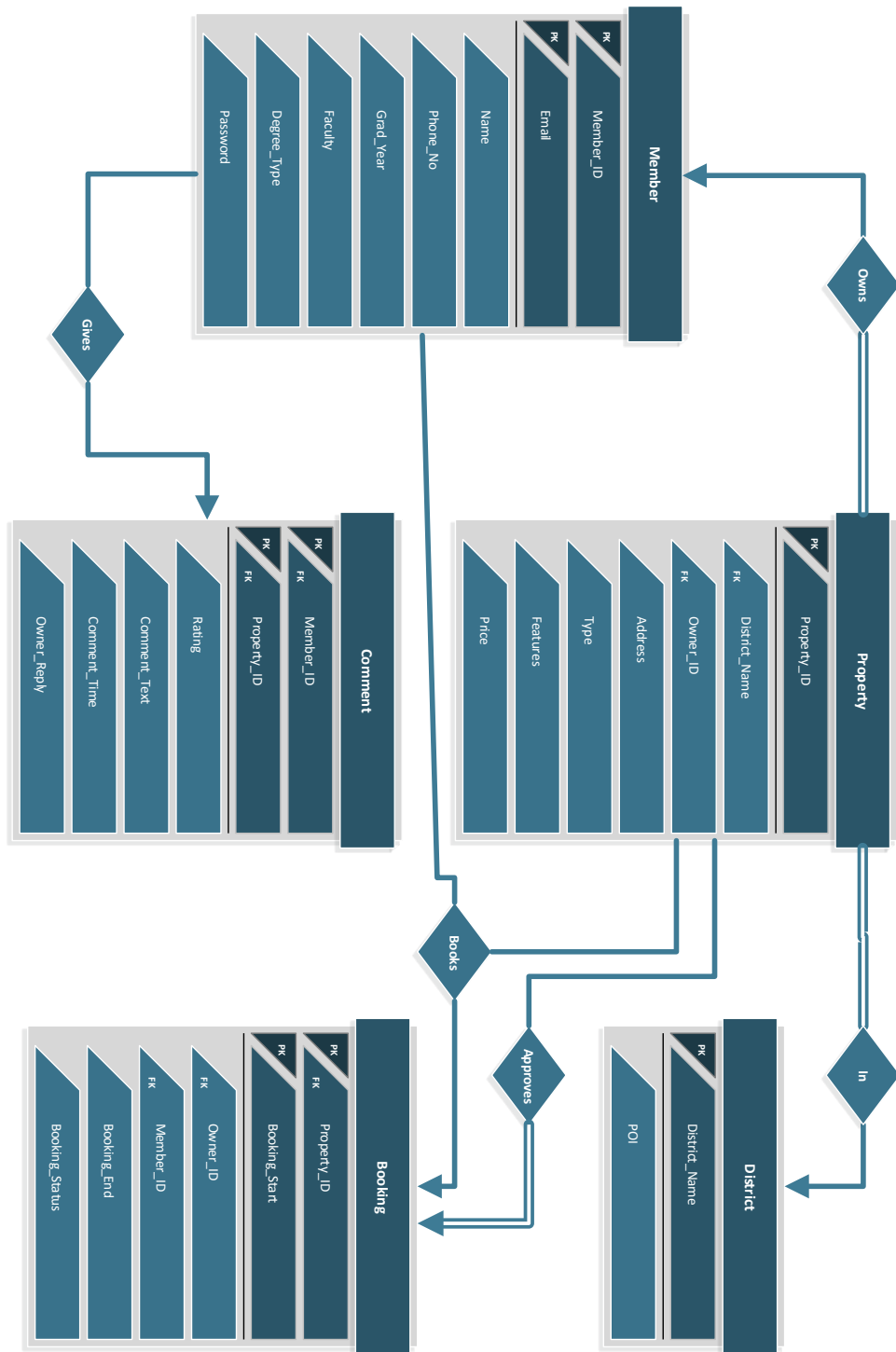
Vinyas Harish 10089169

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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!');
```

Member_ID	F_Name	L_Name	Email	Phone_No	Grad_Year	Faculty	Degree_Type	Password
1	QBnB	Admin	admin@qbnb.ca	6135336666	2000	Computing	BComp	admin
2	Vinyas	Harish	v.harish@queensu.ca	6477675831	2017	Computing	BComp	vin
3	Zac	Baum	zac.baum@queensu.ca	4163203344	2017	Computing	BComp	zac
4	Patrick	Martin	martin@cs.queensu.ca	6131113333	2000	Computing	BComp	cisc332prof
5	Laura	Brooks	laura.brooks@queensu.ca	4164359453	2016	Computing	BComp	cisc332ta

District_Name	POI
Annex	University of Toronto, Jewish Community Centre, Koreatown
Beaches	Ashbridges Bay, Kew Gardens, Woodbine Beach, The Boardwalk, The Goof
Cabbagetown	The School of Toronto Dance Theatre, Riverdale Farm
Chinatown	Markets, Spadina Ave.
Danforth	Greektown, Taste of the Danforth
Distillery District	Mill Street Brewery, Gooderham and Worts Distillery, Toronto Christmas Market
Entertainment District	Air Canada Centre, Rogers Center, CN Tower, Ripleys Aquarium
Financial District	Union Station, First Canadian Place, Fairmont Place, Royal York Hotel, Trump...
Forest Hill	Upper Canada College, Eglinton Theatre
Gerrard Street East	Gerrard India Bazaar
Harbourfront	Harbourfront Centre, Queens Quay, Jack Layton Ferry Terminal, Billy Bishop...
High Park	High Park, Sunnyside Docks
North Toronto	Yonge and Eglinton, Chaplin Estates
Rosedale	The Studio Building, The Integral House
Scarborough City Centre	Scarborough Town Centre
St. Lawrence	St. Lawrence Market, St. Lawrence Hall, Sony Centre for the Performing Arts
Yonge and Dundas	Eatons Centre, Four Seasons Center for the Performing Arts
York Mills	York Mills Shopping Centre, Don Valley Golf Course

Property_ID	Owner_ID	Street_No	Street_Name	City	Country	Postal_Code	District_Name	Type	Features	Price
1	1 ➕	12	Brock Street	Toronto	Canada	M9A 4X6	Entertainment District	➕ Apartment	1 bath, full kitchen	34.5
2	2 ➕	12	Bay Street	Toronto	Canada	M4A 9X6	Financial District	➕ Loft	2 floors, 2 kitchen, hot tub	3000
3	1 ➕	50	Gerrard Street	Toronto	Canada	M9A 4X1	Danforth	➕ Basement	1 bath, full kitchen	50
4	3 ➕	41	Yonge Street	Toronto	Canada	M9A 4X9	North Toronto	➕ Apartment	2 bath, full kitchen	75
5	4 ➕	1891	Quebec Avenue	Toronto	Canada	M6T 4Q9	High Park	➕ House	2 bath, full kitchen	15

Property_ID	Booking_Start	Booking_End	Booking_Status	Member_ID	Owner_ID
2 ➕	2016-02-14 12:00:00	2016-02-15 11:00:00	Rejected	3 ➕	2 ➕
1 ➕	2016-03-11 12:00:00	2016-03-13 15:00:00	Approved	2 ➕	4 ➕
3 ➕	2016-06-11 12:30:00	2016-06-16 13:00:00	Pending	5 ➕	3 ➕

Member_ID	Property_ID	Rating	Comment_Text	Comment_Time	Owner_Reply
2 ➕	3 ➕	5	Great little spot very reasonably priced!	2016-02-10 11:47:11	Glad to hear! Thank you for your visit!
3 ➕	4 ➕	1	Worst experience I have ever had!	2016-02-10 11:47:11	NULL
5 ➕	4 ➕	4	Great place with an even better view!	2016-02-10 11:47:11	NULL