

CIS 550 Project Milestone 3

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To connect to MYSQL Instance on RDS:

```
mysql -h redroofs.clmzagnk9vbp.us-east-1.rds.amazonaws.com -P 3306 -u redroofs -p
```

Password = redroofs

Database = redroofs

Datasets used :

<http://www.livecampusapts.com/Apartments/module/properties/>

<https://www.apartments.com/philadelphia-pa/1/>

<https://www.apartments.com/philadelphia-pa/2/>

<https://www.apartments.com/philadelphia-pa/3/>

<https://www.apartments.com/philadelphia-pa/4/>

(Note that two tables (Users and Favourites) are empty and will be filled later via the webapp with user data)

MongoDB

mongo

```
"mongodb://redroofs-shard-00-00-2lh9v.mongodb.net:27017,redroofs-shard-00-01-2lh9v.mongodb.net:27017,redroofs-shard-00-02-2lh9v.mongodb.net:27017/test?replicaSet=redroofs-shard-00-02-2lh9v" --authenticationDatabase admin --ssl --username redroofs --password redroofs
```

Database = redroofsdb

Collection = crimeStats

Dataset used : <https://www.kaggle.com/mchirico/philadelphiacrime>

1. What are the available housing options in my city? – General Query

```
SELECT L.listing_id,L.address,L.image,L.beds,L.baths,L.price,C.symbol AS  
currency,L.safety_rating,L.link,R.description AS Agent FROM Listings AS L  
INNER JOIN StateCity AS S  
ON L.state = S.state AND L.city = S.city  
INNER JOIN Currencies AS C  
ON L.currency = C.currency  
INNER JOIN RealEstateAgents AS R  
ON L.Agent_id = R.agent_id  
WHERE S.state_text = 'Pennsylvania' AND S.city_text = 'Philadelphia';
```

2. What are all the listings available with my preference of number of bedroom and baths?

```
SELECT L.listing_id,L.address,L.image,L.price,C.symbol AS  
currency,L.safety_rating,L.link,R.description AS Agent FROM Listings AS L  
INNER JOIN StateCity AS S  
ON L.state = S.state AND L.city = S.city  
INNER JOIN Currencies AS C  
ON L.currency = C.currency  
INNER JOIN RealEstateAgents AS R  
ON L.Agent_id = R.agent_id  
WHERE S.state_text = 'Pennsylvania' AND S.city_text = 'Philadelphia' AND L.beds = 2 AND  
L.baths = 2;
```

3. How do I contact and book the rental agencies?

```
SELECT * FROM RealEstateAgents WHERE agent_id = 'CAPT';
```

4. How safe is the locality I'm interested in?

```
SELECT L.address, L.safety_rating FROM Listings AS L  
INNER JOIN StateCity AS S  
ON L.state = S.state AND L.city = S.city  
WHERE S.state_text = 'Pennsylvania' AND S.city_text = 'Philadelphia';
```

5. What are all my favorite listings?

```
SELECT L.listing_id,L.address,L.image,L.beds,L.baths,L.price,C.symbol AS  
currency,L.safety_rating,L.link,R.description AS Agent FROM Listings AS L  
INNER JOIN Currencies AS C  
ON L.currency = C.currency  
INNER JOIN RealEstateAgents AS R  
ON L.Agent_id = R.agent_id  
INNER JOIN Favourites AS F  
ON L.listing_id = F.listing_id  
WHERE F.user_id = 'jacobva';
```

6. What amenities do the listings have (Pets/wifi) ?

```
SELECT IA.listing_id, A.description AS Amenity  
FROM IncludedAmenities AS IA
```

```
INNER JOIN Amenities AS A
ON IA.amenity_id = A.amenity_id.
```

MongoDB has been loaded the crime statistics data.

We will be querying the Mongo Database in a background job scheduled at midnight evernight to calculate a safety rating for all the listings after refreshing our listings set including the new ones added.

This Script has been loaded to git and has already been run once to load the existing data.

<https://github.com/JacobVarghese1992/RedRoofs/blob/master/web-1.js>