```
PM3 Submission
Team: Red Cats
1,
# Looking for the most affordable rental neighborhood
SELECT AVG(CompleteTable.Price 2018) AS AveragePrice,CompleteTable.Neighborhood
FROM (
      SELECT HistoricalRental.Price 2018, ZipCodesToNeighborhood.ZipCode,
ZipCodesToNeighborhood.Neighborhood
  FROM (
             SELECT Beat.ZipCode AS ZipCode, Crimes.Neighborhood AS Neighborhood
             FROM Beat
    INNER JOIN Crimes
                    ON Beat.Beat = Crimes.Beat) AS ZipCodesToNeighborhood
             INNER JOIN Historical Rental
                    ON HistoricalRental.ZipCode = ZipCodesToNeighborhood.ZipCode) AS
CompleteTable
GROUP BY Complete Table. Neighborhood
ORDER BY AveragePrice ASC
LIMIT 1;
100% Ç| 50:8
 Q Search
 AveragePrice Neighborhood
▶ 1.66900000000000 HILLMAN CITY
2,
# crime demographic rank in each neighborhood
SELECT CrimeSubCat, Neighborhood, CNT,
 @CrimeSubCat:=CASE WHEN @Neighborhood <> Neighborhood THEN 0 ELSE
@CrimeSubCat+1 END AS rn,
 @Neighborhood:=Neighborhood AS clset
FROM
(SELECT @CrimeSubCat:= -1) s,
(SELECT @Neighborhood:= -1) c,
(SELECT *
 FROM (SELECT CrimeSubCat, COUNT(CrimeSubCat) AS CNT, Neighborhood
      FROM Crimes
      GROUP BY CrimeSubCat, Neighborhood) AS CrimeSubCategories
```

ORDER BY Neighborhood, CNT desc

) t;

CrimeSubCat	Neighborhood	CNT	rn	clset
INEFT-SHOPLIFT	ALAGRA JUNO HON	102	1	ALASKA JUNO HON
MOTOR VEHICLE THEFT	ALASKA JUNCTION	698	2	ALASKA JUNCTION
THEFT-ALL OTHER	ALASKA JUNCTION	691	3	ALASKA JUNCTION
BURGLARY-RESIDENTIAL	ALASKA JUNCTION	632	4	ALASKA JUNCTION
BURGLARY-COMMERCIAL	ALASKA JUNCTION	347	5	ALASKA JUNCTION
THEFT-BUILDING	ALASKA JUNCTION	314	6	ALASKA JUNCTION
BURGLARY-RESIDENTIAL-SEC	ALASKA JUNCTION	208	7	ALASKA JUNCTION
DUI	ALASKA JUNCTION	192	8	ALASKA JUNCTION
TRESPASS	ALASKA JUNCTION	146	9	ALASKA JUNCTION
AGGRAVATED ASSAULT	ALASKA JUNCTION	135	10	ALASKA JUNCTION
Popult 122	ALARKA ILINICTIONI	100	44	ALARKA ILINOTIONI

3,

#Find the safest zipcodes with lower price SELECT AVG (CompleteTable.Price) AS AveragePrice, COUNT(\*) AS CrimeCNT, CompleteTable.Neighborhood,CompleteTable.ZipCode FROM (

SELECT HistoricalRental.Price\_2018 as Price, ZipCodesToNeighborhood.ZipCode, ZipCodesToNeighborhood.Neighborhood FROM (

SELECT Beat.ZipCode AS ZipCode, Crimes.Neighborhood AS Neighborhood FROM Beat

**RIGHT JOIN Crimes** 

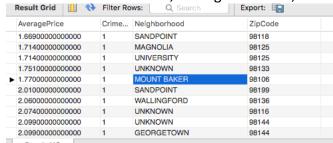
ON Beat.Beat = Crimes.Beat) AS ZipCodesToNeighborhood INNER JOIN HistoricalRental

ON HistoricalRental.ZipCode = ZipCodesToNeighborhood.ZipCode) AS

## CompleteTable

GROUP BY Complete Table. Neighborhood, Zip Code

## ORDER BY CrimeCNT ASC, AveragePrice ASC;



4,

# Which 5 zipcodes has the cheapest medium rental price in terms of price/sft rental in 2017? SELECT ZipCode, Price\_2017 FROM HistoricalRental ORDER BY Price\_2017 LIMIT 5;

ZipCode	Price_2017
98837	0.87800000
98375	0.89700000
98513	0.92600000
98387	0.93300000
98374	0.94100000

5, # Which zipcodes are in the range of price \$2/sft - \$2.5/sft in 2018? SELECT ZipCode, Price\_2018 FROM HistoricalRental WHERE Price\_2018 < 2.5 AND Price\_2018 > 2;

ZipCode	Price_2018
98103	2.24000000
98004	2.09600000
98107	2.31700000
98117	2.09100000
98116	2.07400000
98144	2.09900000
98119	2.26300000
98112	2.30500000
98199	2.01000000
98136	2.06000000

6,

# Which 5 zipcodes has the cheapest medium rental price in terms of price/sft rental in 2018 ordered by number of car crisis in ascending order?

SELECT ZipCode, AVG(FINAL.Price\_2018) AS Price, count(\*) as CRIMECNT, CrimeSubCat FROM (

SELECT Price\_2018, CrimeSubCat, ZipNeighbors.ZipCode FROM (SELECT

Beat.ZipCode AS ZipCode, Crimes.CrimeSubCat

FROM Crimes INNER JOIN Beat

ON Crimes.Beat = Beat.Beat

Where Crimes.CrimeSubCat = 'CAR PROWL') AS ZipNeighbors

INNER JOIN Historical Rental

ON HistoricalRental.ZipCode = ZipNeighbors.ZipCode) AS FINAL

GROUP BY ZipCode, CrimeSubCat

ORDER BY Price, CRIMECNT

LIMIT 5;

	ZipCode	Price	CRIME	CrimeSubCat
F	98118	1.66900000000	6115	CAR PROWL
	98125	1.71400000000	5248	CAR PROWL
	98133	1.75100000000	4746	CAR PROWL
	98106	1.77000000000	4810	CAR PROWL
	98115	1.97800000000	5760	CAR PROWL

7, # What is the estimated rental price in 2019 for 98004?

SELECT HR.Price\_2018 \* (YoY + 1) as Price\_2019, RF.ZipCode FROM RentalForecast RF inner join HistoricalRental HR on RF.ZipCode = HR.ZipCode WHERE RF.ZipCode = 98004;



8,

# Looking for the most affordable rental neighborhood in 2018 SELECT Neighborhood, AVG(Price) AS Price FROM (

SELECT Neighborhood, HistoricalRental.ZipCode, HistoricalRental.Price\_2018 as Price FROM (

(SELECT Crimes.Neighborhood AS Neighborhood, Beat.ZipCode AS ZipCode FROM Crimes INNER JOIN Beat

ON Crimes.Beat = Beat.Beat) AS ZipNeighbors

INNER JOIN Historical Rental

ON HistoricalRental.ZipCode = ZipNeighbors.ZipCode)

) AS Aggregation GROUP BY Neighborhood ORDER BY Price ASC LIMIT 1;



9,

# second lowest income neighborhood to live in

SELECT \*
FROM Residents
ORDER BY AverageIncome LIMIT 2,1;

	Resident	ZipC	AverageHouseValue	AverageIncome	MedianAge		
	10	98110	200000	51088	52.40000000		
	NULL	NULL	NULL	NULL	NULL		

10,
#neighborhood with lowest crime
SELECT COUNT(\*) AS CRIMECOUNT, Neighborhood
FROM Crimes
WHERE Neighborhood <> 'UNKNOWN'
GROUP BY Neighborhood
ORDER BY CRIMECOUNT ASC
LIMIT 1;

CRIMECOUNT	Neighborhood	
160	COMMERCIAL HARBOR ISLAND	