

SQL Assignment

Name - Satyaprakash
Employee ID - TAS059

Date - 27 Jan 2022

Questions:

1. What is the time period used?

```
31 #Question 1 - What is the time period used?
32
33 • select min(date) as start_date, max(Date) as End_date from property;
34
```

1:32

Result Grid

start_date	End_date
2016-09-06	2017-09-05

2. How many properties have duplicate entries? Remove duplicate rows (say a row appears 3 times, remove 2 and keep 1)

```
36 #Question 2 - How many properties have duplicate entries?
37
38 • select count(*) as Total_properties_having_duplicates from
39   (select count(listing_ID)
40     from property
41     group by listing_ID
42     having count(listing_ID)>1) as copy;
43
```

37:42

Result Grid

Total_properties_having_duplicates
3585

```
44 #Q2 - ii part Remove duplicate rows (say a row appears 3 times, remove 2 and keep 1)
45
46 • create table newtable select distinct * from property;
47 • select count(*) from newtable;
48 • drop table property;
49 • RENAME TABLE newtable TO property;
50 • select count(*) as total_Rows from property;
51
52
53
```

30:50

Result Grid

total_Rows
1308525

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3. For each property, find out the number of days the property was available and not available (create a table with listing_id, available days, unavailable days and available days as a fraction of total days)

```
52 #Q3. For each property, find out the number of days the property was available and not
53 #available (create a table with listing_id, available days, unavailable days and available
54 #days as a fraction of total days)
55 • create table availability
56   SELECT listing_ID,
57          SUM(CASE WHEN available='t' THEN 1 ELSE 0 END) AS available_Days
58          ,SUM(CASE WHEN available='f' THEN 1 ELSE 0 END) AS unavailable_Days
59          ,SUM(CASE WHEN available='t' THEN 1 ELSE 0 END)/count(listing_ID) as available_day__outof_total
60   FROM property
61   group by listing_ID;
62
63 • select * from availability;
64
```

listing_ID	available_Days	unavailable_Days	available_day__outof_total
10021398	328	37	0.8986
10032327	75	290	0.2055
10033322	179	186	0.4904
10033710	179	186	0.4904
10033715	117	248	0.3205
10034113	179	186	0.4904
10034183	0	365	0.0000
10034592	361	4	0.9890
10034614	179	186	0.4904
10034930	113	252	0.3096
10035581	117	248	0.3205
10036037	117	248	0.3205
10036192	365	0	1.0000
10037387	204	161	0.5589
10048789	117	248	0.3205
10050351	176	189	0.4822
10051003	242	123	0.6630
10051357	117	248	0.3205
10051623	117	248	0.3205
10051649	365	0	1.0000
10051842	62	303	0.1699
10052037	117	248	0.3205
10052445	111	254	0.3041

4. How many properties were available on more than 50% of the days? How many properties were available on more than 75% of the days?

```
65 #How many properties were available on more than 50% of the days? How many
66 #properties were available on more than 75% of the days?
67
68 • select SUM(CASE WHEN available_day__outof_total>0.5 THEN 1 ELSE 0 END) as more_than_50_percent,
69          SUM(CASE WHEN available_day__outof_total>0.75 THEN 1 ELSE 0 END) as more_than_75_percent
70   from availability;
71
72
```

more_than_50_percent	more_than_75_percent
1732	1429

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5. Create a table with max, min and average price of each property

```
73 # 5 Create a table with max, min and average price of each property
74 select listing_ID as Property_ID, min(price) as Minimum_price, max(price) as Maximum_price, avg(price) as Average_price
75 from property
76 group by listing_ID;
77
```

Result Grid

Property_ID	Minimum_price	Maximum_price	Average_price
10004575	300	600	326.6666666666667
10009367	NULL	NULL	NULL
10021398	70	70	70
10032327	180	250	222.93333333333334
10033322	228	422	309.07262569832403
10033710	228	422	309.07262569832403
10033715	329	549	422.1623931623932
10034113	331	537	405.7150837988827
10034183	NULL	NULL	NULL
10034592	55	100	68.62049861495845
10034614	331	537	405.7150837988827
10034930	329	549	420.3274336283186
10035581	329	549	422.1623931623932
10036037	329	509	416.2649572649573
10036192	449	899	712.3123287671233
10037387	189	509	284.29411764705884
10048789	329	549	422.6752136752137
10050351	339	686	469.54545454545456
10051003	65	65	65
10051357	319	649	495.5811965811966
10051623	319	599	479
10051649	199	800	342.84109589041094
10051842	571	800	648.5483870967741

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6. Extract properties with an average price of more than \$500

```
78 # 6 Extract properties with an average price of more than $500
79 • select listing_ID as Property_ID, avg(price) as Average_price_greater_Than_500
80   from property
81   group by listing_ID
82   having avg(price)>500;
```

Result Grid 1:77 Filter Rows: Search Export:

Property_ID	Average_price_greater_Than_500
10036192	712.3123287671233
10051842	648.5483870967741
10052037	553.7094017094017
10052445	524.5855855855856
10052622	551.982905982906
10052824	618.6296296296297
10052920	528.1452991452992
10053032	525.2831858407079
10053454	553.7094017094017
10053549	553.7094017094017
10053928	553.7094017094017
10136854	553.7094017094017
10153536	553.7094017094017
10153739	553.7094017094017
10228764	553.7094017094017
10857914	653.265306122449
10882267	1250
11122394	529.7818791946308
11521541	680
11563716	578.7222222222222
115936	525
11734812	505.86131386861314
11735784	502.6029411764706
11866651	606.1353383458646
11970702	700
1214214	521.4285714285714
12184433	999
12972378	4000
13004551	529
13060113	539.876404494382
13190410	533.8983050847457
13445221	563.1714285714286
13466910	517.8717201166181