

Raleigh Bumpers

Database Management Systems

Section 02

April 15, 2021

Part 3 Assignment

1. Query 1:  
SELECT \*  
FROM zone  
ORDER BY zname ASC
2. Query 2:  
SELECT zone.zname, COUNT (lot.lid) AS lots\_in\_zones  
FROM zone  
LEFT OUTER JOIN lot ON zone.zname = lot.zname  
GROUP BY zone.zname  
ORDER BY zone.zname ASC
3. Query 3:  
SELECT lot.lotname, COUNT (space.lat) AS spaces  
FROM lot  
LEFT OUTER JOIN space ON lot.lid = space.lid AND special = false  
GROUP BY lot.lotname  
ORDER BY COUNT (space.lat) DESC
4. Query 4:  
SELECT lot.zname, COUNT (space.lat) AS spots\_in\_zones  
FROM lot  
LEFT OUTER JOIN space  
ON space.lid = lot.lid  
GROUP BY lot.lid  
ORDER BY COUNT (space.lat) DESC
5. Query 5:  
SELECT lot.lotname, lot.zname, COUNT (space.vacant) AS spots  
FROM lot  
LEFT OUTER JOIN space ON lot.lid = space.lid  
AND space.vacant = true AND space.special = false  
GROUP BY lot.lotname, lot.zname  
ORDER BY lot.lotname ASC , lot.zname ASC
6. Query 6:  
SELECT lotname  
FROM allowed, lot  
WHERE canpark = zname AND type = 'Staff' AND from\_ = '00:00:00' AND to\_ = '23:59:00'  
AND dow = 'Mon'  
ORDER BY lotname ASC

7. Query 7:

```
SELECT lotname
FROM allowed, lot
WHERE canpark = zname AND type = 'Commuter North' AND from_ = '00:00:00' AND to_ =
'23:59:00' AND dow = 'Mon'
ORDER BY lotname ASC
```

8. Query 8:

```
SELECT lotname
FROM allowed, lot
WHERE canpark = zname AND type = 'Resident North' AND from_ = '00:00:00' AND to_
BETWEEN '06:59:00' AND '23:59:00' AND dow = 'Tue'
ORDER BY lotname ASC
```

9. Query 9:

```
SELECT lotname, lat, long
FROM allowed
JOIN lot
ON allowed.canpark = lot.zname
JOIN space
ON space.lid = lot.lid
WHERE type = 'Commuter East' AND from_ = '00:00:00' AND to_ = '23:59:00' AND dow =
'Mon' AND vacant = 'true'
```

## References

SQLBolt: [https://sqlbolt.com/lesson/select\\_queries\\_with\\_expressions](https://sqlbolt.com/lesson/select_queries_with_expressions)

LearnSQL: <https://learnsql.com/blog/how-to-join-3-tables-or-more-in-sql/>

Military Time Chart: <http://militarytimechart.com/>

Counting Zero Results: <https://stackoverflow.com/questions/14793057/how-to-include-zero-0-results-in-count-aggregate>