

# L6 - SQL. Part 1. Homework!

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Q1: Using the *tutorial.billboard\_top\_100\_year\_end* table write a query that lists all songs from the 1960s with "love" in the title.

```
SELECT year, song_name
FROM tutorial.billboard_top_100_year_end
WHERE year BETWEEN 1960 AND 1969
AND song_name LIKE '%love%'
```

Q2: Using the *tutorial.billboard\_top\_100\_year\_end* table write a query that returns songs that ranked between 10 and 20 (inclusive) in 1993, 2003, or 2013. Order the results by year and rank, and leave a comment on each line of the WHERE clause to indicate what that line does.

```
SELECT song_name, year, year_rank
FROM tutorial.billboard_top_100_year_end
WHERE year in (1993, 2003, 2013) -- only include songs from 1993, 2003 and 2013
AND year_rank BETWEEN 10 AND 20 -- only include if rank is between 10 and 20 inclusive
ORDER BY year, year_rank
```

Q3: Using the *tutorial.city\_populations* table write a query that shows how many cities had a population above one million.

```
SELECT
    COUNT(*) as cities_count
FROM tutorial.city_populations
WHERE population_estimate_2012 > 1000000
```

Q4: Using the *tutorial.housing\_units\_completed\_us* table, write a query that returns all rows for which more units were produced in the West region than in the Midwest and Northeast combined.

```
SELECT *  
FROM tutorial.housing_units_completed_us  
WHERE west > (midwest + northeast)  
ORDER BY west
```

Q5: There are various tables about “animal crossing” in the tutorial database. Can you find the one female villager born in October, whose hobby is fitness?

```
SELECT *  
FROM tutorial.animal_crossing_villagers  
WHERE  
  gender = 'Female'  
  AND hobby = 'Fitness'  
  AND birthday LIKE '%Oct'
```

Q6\* - Fix this query:

```
SELECT year AS "Housing Year",  
       months AS 'Months',  
       midwest AS "Midwest",  
       south AS "South",  
       northeast AS "Northeast",  
FROM  
tutorial(housing_units_completed_us)  
ORDER BY "Housing year" DECS  
WHERE months IS IN ("January", 'April',  
June)
```

```
SELECT year AS "Housing Year",  
       month AS "Months",  
       midwest AS "Midwest",  
       south AS "South",  
       northeast AS "Northeast"  
FROM  
tutorial.housing_units_completed_us  
WHERE month IN (1, 4, 6)  
ORDER BY "Housing Year" DESC
```