Exercise set 3 - SQL basics 2

- Ocelot exercise database presented in SQL basics 1 will be used in this exercise
- Return exercise in .txt format and use formatting presented below (question always followed be the query)

```
-- Select all employees from table
SELECT * FROM EMPS;
```

Aggregate functions

- 1. Select the average of rate values from departments M-P. Set result set column name to be *Average*. Result set value should be presented with two decimals.
- 2. Select employee count of employees having rate value between 6-8. Set result set column name to be *EmpRateCount*.
- 3. Count the sum for rate values of employees working in departments A-G?
- 4. Select the maximum and minimum value of rate value from employees living in Davis. Set result set column names to be *Greatest* and *Smallest*.
- 5. Count the amount of employees having rate value over 10 from each department.

 Department and employee count must be included in the result set. Result set column name should be *Count*. Set result set by *Count* column in descending order.

String patterns

- 6. Create new usernames for employees using SUBSTRING function. Username should include two letters from firstname, last three letters from surname and first three numbers from phone number. Use column name *Username*.
- 7. Select different cities and show city names in lowercase letters in the result set. Use column name *Locations*. Order result set by city name in ascending order.
- 8. Select employee firstname, surname and the length of surname (use column name *surname_length*). Include only employees whose surname length is greater than six characters.

Other functions

- 9. Categorize department budgets in the following manner: budgets below 100000 dollars will be categorized as *Low* and budgets greater than 100000 as *High*. Include columns *dept*, *duty*, *budget* and a newly created column (use column name *budget_categorization*) in the result set.
- 10. Count rate value averages for each city (use column name *city_averages*). City and the average of rate values should be included in the result set. Use descending order by rate value for the result set.
- 11. Analyze what the following SELECT query returns and why (not related to Ocelot training database).

```
SELECT CURRENT_USER,

CASE

WHEN CAST(CURRENT_DATE AS CHAR(10)) <= '2011-02-22'

THEN 'OK'

ELSE 'Late'

END as CheckIt

FROM TargetTable
```