Classroom Problems Sep 18

compare current employee with next highest earning employee

```
select
employee_id,
salary,
department_id,
lead(salary) over(order by salary) as next_high_sal,
lag(salary) over(order by salary) as prev_sal,
lag(salary,2) over(order by salary) as prev_prev_sal,
from `HR.employee`
order by salary, next_high_sal
```

compare current employee salary with next hired employee

```
select
employee_id,
salary,
hire_date,
lead(salary) over(order by hire_date) as next_high_sal
from `HR.employee`
order by hire_date, next_high_sal
```

calcluate running sum of salaries for reach department

```
select
employee_id,
salary,
department_id,
hire_date,
sum(salary) over(partition by department_id) tot_sal,
sum(salary) over(partition by department_id order by hire_date) runn_sal,
sum(salary) over(partition by department_id order by hire_date rows between
200 preceding and current row) runn_sal2
from `HR.employee`
order by department_id,hire_date
```

window frames

```
SELECT
 employee_id,
 department_id,
 salary,
```

```
 hire_date,
 SUM(salary) OVER(PARTITION BY department_id ORDER BY salary ROWS
BETWEEN 2 PRECEDING AND CURRENT ROW) mov_sum_row,
 SUM(salary) OVER(PARTITION BY department_id ORDER BY salary RANGE
BETWEEN 2 PRECEDING AND CURRENT ROW) mov_sum_range
FROM `HR.employee`
order by department_id,salary

SELECT
 employee_id,
 department_id,
 salary,
 hire_date,
 ntile(5) over(order by salary desc) salary_group
 FROM `HR.employee`
order by department_id,salary
```