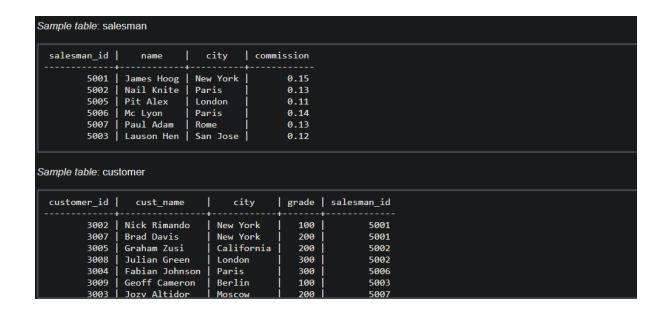


CW-Thu 3





- 1. https://quera.org/problemset/136490/
- 2. https://leetcode.com/problems/customers-who-never-order/
- 3. https://leetcode.com/problems/combine-two-tables/
- 4. https://leetcode.com/problems/second-highest-salary/
- 5. https://leetcode.com/problems/employees-earning-more-than-their-managers/
- 6 A company database needs to store information about employees (identified by ssn, with salary and phone as attributes), departments (identified by dno, with dname and budget as attributes), and children of employees (with name and age as attributes). Employees work in departments; each department is managed by an employee; a child must be identified uniquely by name when the parent (who is an employee; assume that only one parent works for the company) is known. We are not interested in information about a child once the parent leaves the company. Draw an ER diagram that captures this information.
- 7 From the following tables write a SQL query to find the salesperson and customer who reside in the same city. Return Salesman, cust_name and city:



8 - From the following table, write a SQL query to calculate the average purchase amount of all orders. Return average purchase amount.

```
Sample table: orders
             purch_amt
                          ord_date
                                       customer_id salesman_id
 ord_no
 70001
              150.5
                           2012-10-05
                                                     5002
 70009
              270.65
                          2012-09-10
2012-10-05
                                       3001
                                                     5005
5001
                                       3002
 70002
              65.26
 70004
              110.5
                           2012-08-17
                                       3009
                                                     5003
              948.5
                           2012-09-10
 70005
              2400.6
                           2012-07-27
                                       3007
                                                     5001
                          2012-09-10 3002
 70008
              5760
                                                     5001
```