Report Labwork III

Prepare for Labwork:

- (1) Clone employees database from Github
- (2) Create Fork from Github repository
- (3) Install Mysql

I: All info of all employees

Command: **SELECT** * **FROM** 'employees'

Output:

499990	1963-11-03	Khaled		Kohling
M	1985-10-10			
499991	1962-02-26	Pohua		Sichman
F	1989-01-12			
499992	1960-10-12	Siamak		Salverda
F	1987 - 05 - 10			
499993	1963-06-04	DeForest		Mullainathan
M	1997-04-07			
499994	1952-02-26	Navin		Argence
F	1990-04-24			
499995	1958-09-24	Dekang		Lichtner
F	1993-01-12			
499996	1953-03-07	Zito		Baaz
l M	1990-09-27			
499997	1961-08-03	Berhard		Lenart
l M	1986-04-21			
499998	1956-09-05	Patricia		Breugel
l M	1993-10-13			
499999	1958-05-01	Sachin		Tsukuda
l M	1997-11-30			
ı	1	1	,	

300024 rows in set (0.35 sec)

II: All info of all departments

Command: **SELECT** * **FROM** 'departments';

Output:

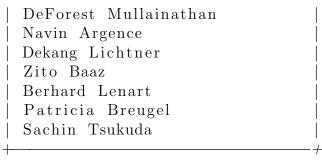
dept_no	dept_name
d009	Customer Service
d005	Development
d002	Finance
d003	Human Resources
d001	Marketing
d004	Production
d006	Quality Management
d008	Research
d007	Sales
· -	/

9 rows in set (0.00 sec)

III: Full names of all employees

Command: SELECT CONCAT(first_name, ' $_$ ', last_name) AS fullname FROM 'employees';

Output:



300024 rows in set (0.20 sec)

IV: Names of all departments

Command: **SELECT** dept_name **FROM** 'departments';

Output:

$rac{ ext{dept_name}}{ ext{$
Customer Service
Development
Finance
Human Resources
Marketing
Production
Quality Management
Research
Sales

9 rows in set (0.01 sec)

V: Full names of employees working in "Sales" department

Command: SELECT CONCAT(first_name, '_', last_name) AS fullname FROM 'employees' t1 JOIN 'dept_emp' t2 ON t1.emp_no=t2.emp_no JOIN 'departments' t3 ON t2.dept_no=t3.dept_no WHERE t3.'dept_name' = 'Sales';

Output:

Christ Murtagh Youpyo Perfilyeva Leszek Pulkowski Gaetan Veldwijk Mihalis Crabtree Bangqing Bodoff Guozhong Felder Gino Usery Nathan Ranta Rimli Dusink

VI: Full names of male employees working in "Finance" department

```
Command: SELECT CONCAT(first_name, '_', last_name) AS fullname FROM 'employees' t1 JOIN 'dept_emp' t2 ON t1.emp_no=t2.emp_no JOIN 'departments' t3 ON t2.dept_no=t3.dept_no
WHERE t3.'dept_name' = 'Finance' AND t1.gender='M';
```

Output:

VI: Full names of male employees working in "Finance" department

```
Command: SELECT CONCAT(first_name, '_', last_name) AS fullname
FROM 'employees' t1 JOIN 'dept_emp' t2 ON t1.emp_no=t2.emp_no
JOIN 'departments' t3 ON
    t2.dept_no=t3.dept_no
    WHERE t3.'dept_name' = 'Marketing' AND t1.gender='F';
Output:
```

```
Breannda Gajiwala
Vesna Attimonelli
Kinh Sommer
Turgut Levasseur
Gopalakrishnan Maierhofer
Moriyoshi Pusterhofer
JiYoung Coney
Adhemar Gist
Tonia Butner
Siamak Salverda
```

8037 rows in set (0.06 sec)

VII: Full names of employees who have the same last name as their manager

Command: **SELECT** CONCAT(first_name, '_ ', last_name) **AS** Fullname FROM employees e1 WHERE e1.last_name IN (SELECT last_name FROM employees e2 JOIN dept_manager dm ON e2.emp_no=dm.emp_no);

Output:

```
Abdelkader Ghazalie
  Gudjon Hagimont
 Padma Hofmeyr
  Suvo Minakawa
  Xiaoshan Sigstam
 Mong Staelin
  Parto Kambil
  Martine Markovitch
  Zine Ghazalie
  Vasilis Kaelbling
  Xiadong Hofmeyr
  Hidde Alpin
  Heekeun Weedman
4403 rows in set (0.74 sec)
```

VIII: Full names of managers who have been doing the job twice

```
Command: SELECT COUNT(CONCAT(first_name, '_', last_name)) AS Jobs , CONCAT(first_name, '_', last_name) AS Fullname FROM employees e1 JOIN titles t ON e1.emp_no=t.emp_no JOIN dept_manager dm ON e1.emp_no=dm.emp_no GROUP BY first_name, last_name ;
```

Output:

Jobs	Fullname
2	Arie Staelin
2	DeForest Hagimont
2	Dung Pesch
2	Ebru Alpin
2	Hauke Zhang
2	Hilary Kambil
2	Isamu Legleitner
2	Karsten Sigstam
2	Krassimir Wegerle
2	Leon DasSarma
2	Margareta Markovitch
3	Marjo Giarratana
2	Oscar Ghazalie
2	Peternela Onuegbe
2	Przemyslawa Kaelbling
3	Rosine Cools
3	Rutger Hofmeyr
3	Sanjoy Quadeer
3	Shem Kieras
2	Shirish Ossenbruggen
2	Tonny Butterworth
2	Vishwani Minakawa
3	Xiaobin Spinelli
2	Yuchang Weedman

```
24 rows in set (0.00 sec)
```

IX: Full names of employees who was paid more than 100.000

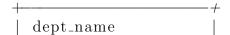
Command: **SELECT DISTINCT**(CONCAT(first_name, '_', last_name)) **FROM** employees e **RIGHT JOIN** salaries s **ON** e.emp_no=s.emp_no **WHERE** s.salary > 100000;

Output:

X: Names of all departments that have employees paid more than 100.000

Command: **SELECT DISTINCT**(dept_name) **FROM** employees e **JOIN** salaries s **ON** e.emp_no=s.emp_no **JOIN** dept_emp de **ON** de.emp_no=e.emp_no **JOIN** departments d **ON** d.dept_no=de.dept_no **WHERE** s.salary > 100000;

Output:



```
Customer Service
Development
Finance
Human Resources
Marketing
Production
Quality Management
Research
Sales
```