

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
M	1990-09-27		
499997	1961-08-03	Berhard	Lenart
M	1986-04-21		
499998	1956-09-05	Patricia	Breugel
M	1993-10-13		
499999	1958-05-01	Sachin	Tsukuda
M	1997-11-30		

+-----+-----+-----+-----+-----+
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:

DeForest Mullainathan
Navin Argence
Dekang Lichtner
Zito Baaz
Berhard Lenart
Patricia Breugel
Sachin Tsukuda

300024 rows in set (0.20 sec)

IV: Names of all departments

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

Output:

dept_name
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

```
| Bangqing Kleiser |
+-----+
52245 rows in set (0.27 sec)
```

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:

```
| Ymte Potthoff |
| Nagui Stamatiou |
| Bernd Gluchowski |
| Phillip Panienski |
| Sastry Szmurlo |
| Jacopo Hasham |
| Moon Pleszkun |
| Hercules Porotnikoff |
| Shaz Bierbaum |
| Masali Chorvat |
| Keiichiro Lindqvist |
| Patricia Breugel |
+-----+
10331 rows in set (0.04 sec)
```

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:

Breannnda 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	Przemyslaw 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:

```
| Akeel Baez |
| Armond Fraisse |
| Christoph Schneeberger |
| Mong Usdin |
| Alope Wuwongse |
| Masako Angiulli |
| Christ Murtagh |
| Youpyo Perfilyeva |
| Leszek Pulkowski |
| Danai Hedayat |
| Guozhong Felder |
| Gino Usery |
| Nathan Ranta |
| Bangqing Kleiser |
+-----+
18925 rows in set (1.20 sec)
```

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:

```
+-----+
| dept_name |
```

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

9 rows in set (0.01 sec)