MySQL Project Report

~By Alok



Business Requirement

- Creating Employees Database from scratch
- Perform various manipulation operations
- Payroll management
- Updating the Database



Functions Used

SELECT, LENGTH, LIKE, REPLACE

MAX,MIN,LPAD,REPLACE,

MONTHNAME, UPPER, BINARY,

RIGHT, SUBSTRING_INDEX, LIMIT

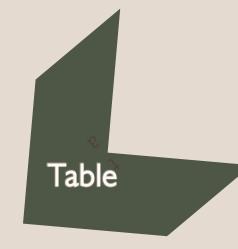
6

LEFT, INSTR, MONTH, DAY

/11

Table Characteristics

mysql> describe employees2024;							
Field	Туре	Null	Key	Default	Extra		
job_id employee_id first_name last_name street_address phone_no hire_date email	varchar(20) int varchar(20) varchar(20) varchar(40) int date varchar(40)	YES NO YES YES YES YES YES YES	PRI	NULL NULL NULL NULL NULL NULL NULL NULL			

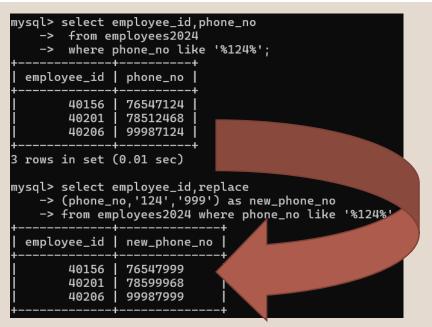


job_id	employee_id	first_name	last_name	street_address	phone_no	hire_date	email
ae_ele	40105	arjun	parihar	udaipur	84951876	2017-06-15	arjun.parihar@hrk.com
ae_pro	40118	bijay	agarwal	ratlam	85642341	2017-06-17	bijay.agarwal@hrk.com
ae_pro	40133	akash	kataria	rohtak	79541253	2018-07-11	akash.kataria@hrk.com
ae_pro	40156	nikita	mhatre	nagpur	76547124	2019-08-22	nikita.mhatre@hrk.com
ao_pro	40189	madhushmita	sharma	sambalpur	99312789	2020-07-18	madhu.sharma@hrk.com
ao_mgr	40201	amitanshu	gupta	jaipur	78512468	2021-06-22	amitanshu.gupta@hrk.com
ao_pro	40202	rohit	pawar	pune	90388366	2021-06-22	rohit.pawar@hrk.com
ae_fin	40206	jitesh	ranjan	bhubaneswar	99987124	2021-06-24	amit.ranjan@hrk.com
ae_lea	40209	anuradha	dixit	lucknow	99743698	2021-06-25	anu.dixit@hrk.com
ae_hr	40217	sumit	kumar	bhopal	98745486	2012-06-01	sumit.kumar@hrk.com

Write a query to get the job_id and related employee's id.

a quely te s	got and job_id and related of		
	lect job_id,employee_id om employees2024;		
job_id	 employee_id 		
ae_ele	40105		
ae_pro	40118		
ae_pro	40133		
ae_pro	40156		
ao_pro	40189		
ao_mgr	40201		
ao_pro	40202		
ae_fin	40206		
ae_lea	40209		
ae_hr	40217		
+	t+		

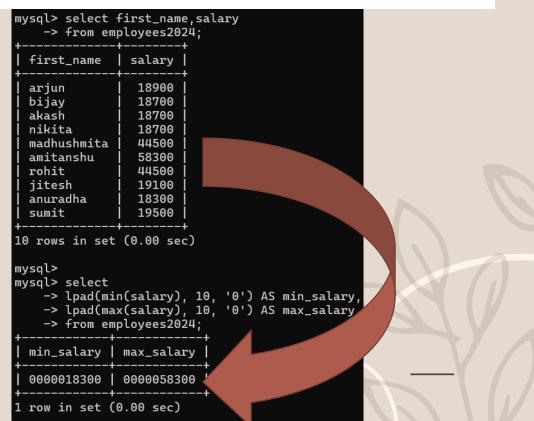
2. Write a query to update the portion of the phone_number in the employees table, within the phone number the substring '124' will be replaced by '999'.



3. Write a query to get the details of the employees where the length of the first name greater than or equal to 8.

```
mysql> select job_id,employee_id,first_name,Last_name
    -> from employees2024 where length(first_name)>=8;
 job_id | employee_id | first_name
                                       Last_name
 ao_pro
                 40189
                         madhushmita
                                       sharma
                 40201
 ao_mgr
                         amitanshu
                                       gupta
                 40209
                         anuradha
                                       dixit
 ae_lea
```

 Write a query to display leading zeros before maximum and minimum salary.



5. Write a query to append '@example.com' to email field.

```
mysql> select job_id,email from employees2024;
  job_id | email
          arjun.parihar@hrk.com
  ae_ele
  ae_pro
          bijay.agarwal@hrk.com
          akash.kataria@hrk.com
  ae_pro
          nikita.mhatre@hrk.com
  ae_pro
          madhu.sharma@hrk.com
  ao_pro
  ao_mgr
          amitanshu.gupta@hrk.com
          rohit.pawar@hrk.com
  ao_pro
  ae_fin |
          amit.ranjan@hrk.com
 ae_lea
          anu.dixit@hrk.com
  ae_hr | sumit.kumar@hrk.com
10 rows in set (0.01 sec)
mysql> select job_id,replace
    -> (email, '@hrk.com', '@example.com')
    -> as new_email from employees2024;
  job_id | new_email
  ae_ele
          arjun.parihar@example.com
          bijay.agarwal@example.com
  ae_pro
          akash.kataria@example.com
  ae_pro
  ae_pro
          nikita.mhatre@example.com
          madhu.sharma@example.com
  ao_pro
          amitanshu.gupta@example.com
  ao_mgr
          rohit.pawar@example.com
 ao_pro
          amit.ranjan@example.com
  ae_fin
  ae_lea |
          anu.dixit@example.com
           sumit.kumar@example.com
  ae_hr
```

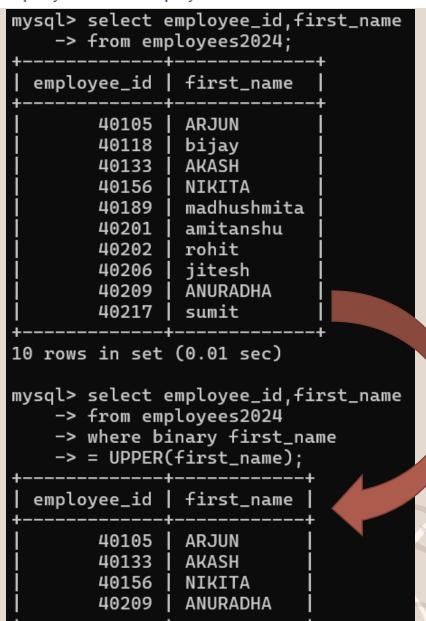
6, Write a query to get the employee id, first name and hire month.

mysql> select e -> from emp	employee_id,fii oloyees2024;	rst_name,hire_	date
employee_id	first_name	hire_date	
40105 40118 40133 40156 40189 40201 40202 40206 40209 40217 40217 40217 40217 40217 40217 40217		name	
employee_id	first_name	hire_month	
40105 40118 40133 40156 40189 40201 40202 40206 40209 40217	arjun bijay akash nikita madhushmita amitanshu rohit jitesh anuradha sumit	June June July August July June June June June June June	

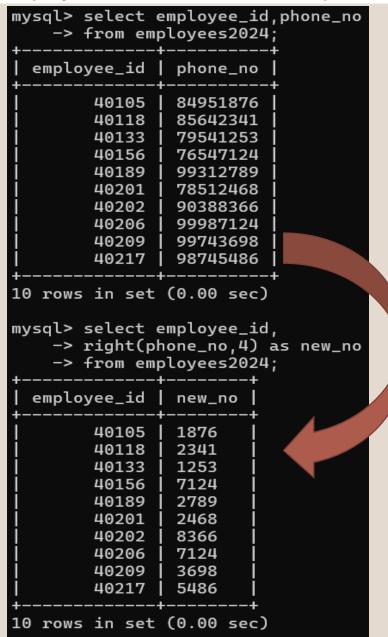
7. Write a query to get the employee id, email id (discard the last three characters).

```
mysql> select employee_id,email
    -> from employees2024;
  employee_id | email
        40105 |
               arjun.parihar@hrk.com
        40118
               bijay.agarwal@hrk.com
               akash.kataria@hrk.com
        40133 |
               nikita.mhatre@hrk.com
        40156
        40189
               madhu.sharma@hrk.com
        40201
                amitanshu.gupta@hrk.com
               rohit.pawar@hrk.com
        40202
               amit.ranjan@hrk.com
        40206
                anu.dixit@hrk.com
        40209
        40217 |
               sumit.kumar@hrk.com
10 rows in set (0.04 sec)
mysql> select employee_id,replace
    -> (email,right(email,3),'') as email_new
    -> from employees2024;
  employee_id | email_new
               arjun.parihar@hrk.
        40105 |
        40118 |
               bijay.agarwal@hrk.
        40133
               akash.kataria@hrk.
        40156
               nikita.mhatre@hrk.
        40189
               madhu.sharma@hrk.
        40201
                amitanshu.gupta@hrk.
        40202
               rohit.pawar@hrk.
        40206
               amit.ranjan@hrk.
               anu.dixit@hrk.
        40209
                sumit.kumar@hrk.
        40217
```

8. Write a query to find all employees where first names are in upper case.



9. Write a query to extract the last 4 character of phone numbers.



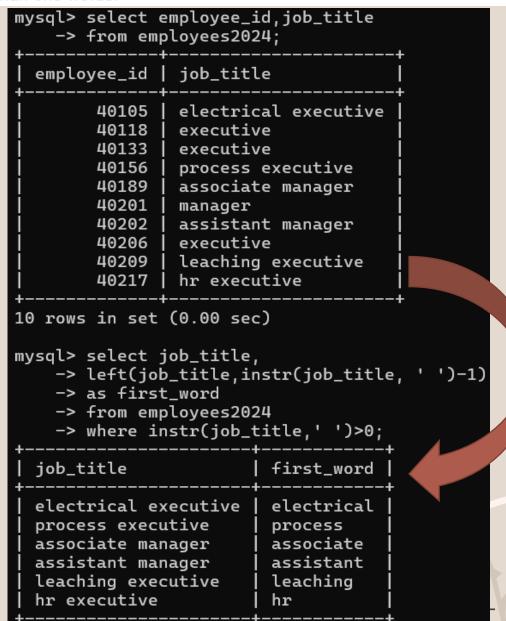
10. Write a query to get the last word of the street address.

10. Write a q	uery to	get the last	st word of the street addre
mysql> select	employe	e_id,street_ad	ddress from employees2024;
employee_id	stree	t_address	į
40105 40118 40133 40156 40189 40201 40202 40206 40209 40217	+		
nysql> select s -> (street -> from em	street_a _addres:	address,substr s,',',-1) as s	
street_address		state	
Bhubaneswar,Odisha Jaipur,Rajasthan Udaipur,Rajasthan Ratlam,MP Bopal,MP Sambalpur,Odisha Nagpur,Maharashtra Lucknow,UP Pune,Maharashtra Rohtak,Haryana		Odisha Rajasthan Rajasthan MP MP Odisha Maharashtra UP Maharashtra Haryana	į

11. Write a query to get the locations that have minimum street length.

```
mysql> select employee_id,
    -> street address
    -> from employees2024;
  employee_id | street_address
        40105 | Bhubaneswar,Odisha
        40118
                Jaipur,Rajasthan
        40133
              Udaipur,Rajasthan
        40156 | Ratlam, MP
        40189 | Bhopal, MP
        40201 | Sambalpur,Odisha
                Nagpur, Maharashtra
        40202
        40206 | Lucknow, UP
                Pune, Maharashtra
        40209
        40217
                Rohtak, Haryana
10 rows in set (0.00 sec)
mysql> select employee_id, street_address
    -> from employees2024
    -> order by length(street_address) asc
    -> limit 1:
  employee_id | street_address |
        40156 | Ratlam, MP
```

12. Write a query to display the first word from those job titles which contains more than one words.



13. Write a query to display the length of first name for employees where last name contain character 'c' after 2nd position.

14. Write a query that displays the first name and the length of the first name for all employees whose name starts with the letters 'A', 'J' or 'M'. Give each column an appropriate label. Sort the results by the employees' first names.

mysql> select first_name as name, -> length(first_name) as count -> from employees2024 -> where first_name like 'a%' -> or first_name like 'j%' -> or first_name like 'm%' -> order by first_name: count name akash 5 amitanshu 9 anuradha 8 arjun 5 jitesh 6 madhushmita 11

15. Write a query to display the first name and salary for all employees.
Format the salary to be 10 characters long, left-padded with the \$ symbol.
Label the column SALARY.

```
mysql> select first_name,
    -> lpad(salary,10,'$')
    -> as SALARY
    -> from employees2024;
  first_name
                 SALARY
  arjun
                 $$$$$18900
  bijay
                  $$$$$18700
  akash
                   $$$18700
  nikita
  madhushmita
                 $$$$$44500
  amitanshu
  rohit
                 $$$$$44500
  jitesh
                 $$$$$19100
  anuradha
                 $$$$$18300
                 $$$$$19500
  sumit
10 rows in set (0.01 sec)
```

16. Write a query to display the first eight characters of the employees' first names and indicates the amounts of their salaries with '\$' sign. Each '\$' sign signifies a thousand dollars. Sort the data in descending order of salary.

```
mysql> select left(first_name,8)
    -> as NAME,
    -> lpad(salary,6,'$')
    -> as SALARY
    -> from employees2024;
  NAME
              SALARY
              $18900
  arjun
  bijay
              $18700
  akash
              $18700
  nikita
              $18700
  madhushm
              $44500
              $58300
  amitansh
  rohit
              $44500
  jitesh
              $19100
              $18300
  anuradha
  sumit
              $19500
```

17. Write a query to display the employees with their code, first name, last name and hire date who hired either on seventh day of any month or seventh month in any year.

```
mysql> select employee_id,first_name,
    -> last_name,hire_date
    -> from employees2024
    -> where month(hire_date)=07 or
    -> day(hire_date)=07;
  employee_id
                first_name
                               last_name
                                           hire_date
        40133
                akash
                               katoch
                                           2018-07-11
        40189
                madhushmita
                               sharma
                                           2020-07-18
        40202
                rohit
                                           2021-06-07
                               pawar
        40217
                                           2021-06-07
                sumit
                               kumar
```

thank you

ALOK

EMail:

cool.alokranjan@gmail.com

GitHub:

https://github.com/Alokranjan265?tab =repositories