

## Set-7) MySQL String Functions

1. Write a [MySQL](#) query to get the job\_id and related employee's id.

```
SELECT job_id,GROUP_CONCAT(employee_id, ' ') AS 'Employees ID' FROM employees GROUP BY job_id;
```

	job_id	Employees ID
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	AC_ACCOUNT	206
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	AC_MGR	205
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	AD_ASST	200
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	AD_PRES	100
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	AD_VP	101 ,102
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	FI_ACCOUNT	109 ,110 ,111 ,112 ,113
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	FI_MGR	108
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	HR_REP	203

2. Write a [MySQL](#) 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'.

```
UPDATE employees SET phone_number = REPLACE(phone_number, '124', '999') WHERE phone_number LIKE '%124%';
```

3. Write a [MySQL](#) query to get the details of the employees where the length of the first name greater than or equal to 8.

```
SELECT * FROM employees WHERE LENGTH(first_name) >= 8;
```

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	112	Jose Manuel	Urman	JMURMAN	515.999.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	115	Alexander	Khoo	AKHOO	515.127.4562	1987-07-02	PU_CLERK	3100.00	0.00	114
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	153	Christopher	Olsen	COLSEN	011.44.1344.498718	1987-08-09	SA_REP	8000.00	0.20	145
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	163	Danielle	Greene	DGREENE	011.44.1346.229268	1987-08-19	SA_REP	9500.00	0.15	147

4. Write a [MySQL](#) query to display leading zeros before maximum and minimum salary.

```
SELECT job_id, LPAD(max_salary, 7, '0') AS 'Max Salary', LPAD(min_salary, 7, '0') AS 'Min Salary' FROM jobs;
```

	job_id	Max Salary	Min Salary
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	AD_PRES	0040000	0020000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	AD_VP	0030000	0015000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	AD_ASST	0006000	0003000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	FI_MGR	0016000	0008200
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	FI_ACCOUNT	0009000	0004200
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	AC_MGR	0016000	0008200
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	AC_ACCOUNT	0009000	0004200
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	SA_MAN	0020000	0010000

5. Write a [MySQL](#) query to append '@example.com' to email field.

```
UPDATE employees SET email = CONCAT(email, '@example.com');
```

6. Write a [MySQL](#) query to get the employee id, first name and hire month.

[SELECT](#) employee\_id, first\_name, MID(hire\_date, 6, 2) as hire\_month FROM employees;

<div><div><div></div><div></div><div></div></div></div>				employee_id	first_name	hire_month
<div><div><div></div><div></div><div></div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	100	Steven	06
<div><div><div></div><div></div><div></div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	101	Neena	06
<div><div><div></div><div></div><div></div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	102	Lex	06
<div><div><div></div><div></div><div></div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	103	Alexander	06
<div><div><div></div><div></div><div></div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	104	Bruce	06
<div><div><div></div><div></div><div></div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	105	David	06
<div><div><div></div><div></div><div></div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	106	Valli	06
<div><div><div></div><div></div><div></div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	107	Diana	06
<div><div><div></div><div></div><div></div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	108	Nancy	06
<div><div><div></div><div></div><div></div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	109	Daniel	06

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

[SELECT](#) employee\_id, REVERSE(SUBSTR(REVERSE(email), 4)) as Email\_ID FROM employees;

<div><div></div><div></div><div></div></div>				employee_id	Email_ID
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	100	SKING@example.
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	101	NKOCHHAR@example.
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	102	LDEHAAN@example.
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	103	AHUNOLD@example.
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	104	BERNST@example.
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	105	DAUSTIN@example.
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	106	VPATABAL@example.
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	107	DLORENTZ@example.
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	108	NGREENBE@example.
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	109	DFAVIET@example.

8. Write a [MySQL](#) query to find all employees where first names are in upper case.

[SELECT](#) \* FROM employees WHERE first\_name = [BINARY](#) UPPER(first\_name);

			EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAG
<input type="checkbox"/>	Edit	Copy	Delete	132	TJ	Olson	TJOLSON@example.com	650.999.8234	1987-07-19	ST_CLERK	2100.00	0.00

9. Write a [MySQL](#) query to extract the last 4 character of phone numbers.

[SELECT](#) RIGHT(phone\_number, 4) as 'Ph.No.' FROM employees;

Ph.No.
4567
4568
4569
4567
4568
4569
4560
5567
4569
4169

10. Write a [MySQL](#) query to get the last word of the street address.

```
SELECT location_id, street_address, SUBSTRING_INDEX(REPLACE(REPLACE(REPLACE(street_address, ',' , ' '), ' '), ' '), ' '), -1) AS 'Last--word-of street_address' FROM locations;
```

location_id	street_address	Last--word-of street_address
1000	1297 Via Cola di Rie	Rie
1100	93091 Calle della Testa	Testa
1200	2017 Shinjuku-ku	Shinjuku-ku
1300	9450 Kamiya-cho	Kamiya-cho
1400	2014 Jabberwocky Rd	Rd
1500	2011 Interiors Blvd	Blvd
1600	2007 Zagora St	St
1700	2004 Charade Rd	Rd

11. Write a [MySQL](#) query to get the locations that have minimum street length.

```
SELECT * FROM locations WHERE LENGTH(street_address) <= ( SELECT MIN(LENGTH(street_address)) FROM locations);
```

		LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY	STATE_PROVINCE	COUNTRY_ID
<input type="checkbox"/>	Edit	Copy	Delete	1600	2007 Zagora St	50090	South Brunswick New Jersey US
<input type="checkbox"/>	Edit	Copy	Delete	2400	8204 Arthur St		London UK










12. Write a [MySQL](#) query to display the first word from those job titles which contains more than one words.

```
SELECT job_title, SUBSTR(job_title, 1, INSTR(job_title, ' ') - 1) FROM jobs;
```

				job_title	SUBSTR(job_title, 1, INSTR(job_title, ' ') - 1)
<input type="checkbox"/>	 Edit	 Copy	 Delete	President	
<input type="checkbox"/>	 Edit	 Copy	 Delete	Administration Vice President	Administration
<input type="checkbox"/>	 Edit	 Copy	 Delete	Administration Assistant	Administration
<input type="checkbox"/>	 Edit	 Copy	 Delete	Finance Manager	Finance
<input type="checkbox"/>	 Edit	 Copy	 Delete	Accountant	
<input type="checkbox"/>	 Edit	 Copy	 Delete	Accounting Manager	Accounting
<input type="checkbox"/>	 Edit	 Copy	 Delete	Public Accountant	Public
<input type="checkbox"/>	 Edit	 Copy	 Delete	Sales Manager	Sales
<input type="checkbox"/>	 Edit	 Copy	 Delete	Sales Representative	Sales

13. Write a [MySQL](#) query to display the first name and last name for employees where first occurrence of last name contain character 'c' after 2nd position.

```
SELECT first_name, last_name FROM employees WHERE INSTR(last_name, 'C') > 2;
```

				first_name	last_name
<input type="checkbox"/>	 Edit	 Copy	 Delete	Neena	Kochhar
<input type="checkbox"/>	 Edit	 Copy	 Delete	Nandita	Sarchand
<input type="checkbox"/>	 Edit	 Copy	 Delete	Peter	Tucker

14. Write a [MySQL](#) 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.

[SELECT](#) first\_name "Name", LENGTH(first\_name)"length" FROM employees WHERE first\_name [LIKE](#) 'J%' [OR](#) first\_name [LIKE](#) 'M%' [OR](#) first\_name [LIKE](#) 'A%' ORDER BY first\_name;

	Name	length
<input type="checkbox"/> Edit  Copy  Delete	Adam	4
<input type="checkbox"/> Edit  Copy  Delete	Alana	5
<input type="checkbox"/> Edit  Copy  Delete	Alberto	7
<input type="checkbox"/> Edit  Copy  Delete	Alexander	9
<input type="checkbox"/> Edit  Copy  Delete	Alexander	9
<input type="checkbox"/> Edit  Copy  Delete	Alexis	6
<input type="checkbox"/> Edit  Copy  Delete	Allan	5
<input type="checkbox"/> Edit  Copy  Delete	Alyssa	6
<input type="checkbox"/> Edit  Copy  Delete	Amit	4

15. Write a [MySQL](#) 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.

[SELECT](#) first\_name, LPAD(salary, 10, '\$') SALARY FROM employees;

	first_name	SALARY
<input type="checkbox"/> Edit  Copy  Delete	Steven	\$\$24000.00
<input type="checkbox"/> Edit  Copy  Delete	Neena	\$\$17000.00
<input type="checkbox"/> Edit  Copy  Delete	Lex	\$\$17000.00
<input type="checkbox"/> Edit  Copy  Delete	Alexander	\$\$\$9000.00
<input type="checkbox"/> Edit  Copy  Delete	Bruce	\$\$\$6000.00
<input type="checkbox"/> Edit  Copy  Delete	David	\$\$\$4800.00
<input type="checkbox"/> Edit  Copy  Delete	Valli	\$\$\$4800.00
<input type="checkbox"/> Edit  Copy  Delete	Diana	\$\$\$4200.00
<input type="checkbox"/> Edit  Copy  Delete	Nancy	\$\$12000.00
<input type="checkbox"/> Edit  Copy  Delete	Daniel	\$\$\$9000.00
<input type="checkbox"/> Edit  Copy  Delete	John	\$\$\$8200.00

16. Write a [MySQL](#) 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.

[SELECT](#) LEFT(first\_name, 8), [REPEAT](#)('\$', FLOOR(salary/1000)) 'SALARY(\$)', salary FROM employees ORDER BY salary DESC;

			LEFT(first_name, 8)	SALARY(\$)	salary
<input type="checkbox"/>	Edit	Copy	Delete	Steven	24000.00
<input type="checkbox"/>	Edit	Copy	Delete	Neena	17000.00
<input type="checkbox"/>	Edit	Copy	Delete	Lex	17000.00
<input type="checkbox"/>	Edit	Copy	Delete	John	14000.00
<input type="checkbox"/>	Edit	Copy	Delete	Karen	13500.00
<input type="checkbox"/>	Edit	Copy	Delete	Michael	13000.00
<input type="checkbox"/>	Edit	Copy	Delete	Alberto	12000.00

17. Write a [MySQL](#) 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.

[SELECT](#) employee\_id,first\_name, last\_name, hire\_date FROM employees WHERE POSITION("07" [IN](#) DATE\_FORMAT(hire\_date, '%d %m %Y')) > 0;

				employee_id	first_name	last_name	hire_date
<input type="checkbox"/>	Edit	Copy	Delete	114	Den	Raphaely	1987-07-01
<input type="checkbox"/>	Edit	Copy	Delete	115	Alexander	Khoo	1987-07-02
<input type="checkbox"/>	Edit	Copy	Delete	116	Shelli	Baida	1987-07-03
<input type="checkbox"/>	Edit	Copy	Delete	117	Sigal	Tobias	1987-07-04
<input type="checkbox"/>	Edit	Copy	Delete	118	Guy	Himuro	1987-07-05
<input type="checkbox"/>	Edit	Copy	Delete	119	Karen	Colmenares	1987-07-06
<input type="checkbox"/>	Edit	Copy	Delete	120	Matthew	Weiss	1987-07-07
<input type="checkbox"/>	Edit	Copy	Delete	121	Adam	Fripp	1987-07-08
<input type="checkbox"/>	Edit	Copy	Delete	122	Payam	Kaufling	1987-07-09
<input type="checkbox"/>	Edit	Copy	Delete	123	Shanta	Vollman	1987-07-10
<input type="checkbox"/>	Edit	Copy	Delete	124	Kevin	Mourgos	1987-07-11
<input type="checkbox"/>	Edit	Copy	Delete	125	Julia	Nayer	1987-07-12