

1. Display all the first names in lower case and the last names in upper case as the single column separated with ' - '. Provide the meaningful name to the column.

```
KD2_Abhishhek_96835>select concat(lower(first_name), '-' ,upper(last_name)) as full_name from employees;
+-----+
| full_name |
+-----+
| ellen-ABEL
| sundar-ANDE
| mozhe-ATKINSON
| shelli-BAIDA
| amit-BANDA
| elizabeth-BATES
| sarah-BELL
| david-BERNSTEIN
| laura-BISSOT
| harrison-BLOOM
|
| timothy-VENZL
| clara-VISHNEY
| shanta-VOLLMAN
| alana-WALSH
| matthew-WEISS
| jennifer-WHALEN
| david-WILLIAMS
| neena-YANG
| eleni-ZLOTKEY
+
107 rows in set (0.01 sec)
```

2. Display the first word of the job title. (Hint : Use substring_index).

```
KD2_Abhishhek_96835>select substring_index(job_title,' ',1) as first_word from jobs;
+-----+
| first_word |
+-----+
| Public
| Accounting
| Administration
| President
| Administration
| Accountant
| Finance
| Human
| Programmer
| Marketing
| Marketing
| Public
| Purchasing
| Purchasing
| Sales
| Sales
| Shipping
| Stock
| Stock
+
19 rows in set (0.04 sec)
```

3. Display the First name, last name and length of first name for the employees whose last name contains character 'b' anywhere after 3rd position.

```
KD2_Abhishhek_96835>select first_name,last_name,length(first_name) from employees where last_name like '___%b%';
+-----+-----+-----+
| first_name | last_name | length(first_name) |
+-----+-----+-----+
| Gerald     | Cambrault   |          6 |
| Nanette    | Cambrault   |          7 |
| Nancy      | Gruenberg  |          5 |
| Susan      | Jacobs      |          5 |
+-----+-----+-----+
4 rows in set (0.01 sec)
```

4. Display the employee id, first name and last name of the employees whose first or last name includes a space in between.

```
KD2_Abhishhek_96835>select employee_id,first_name,last_name from employees where first_name like '% %' or last_name like '% %';
+-----+-----+-----+
| employee_id | first_name | last_name |
+-----+-----+-----+
|       112 | Jose Manuel | Urman      |
+-----+-----+-----+
1 row in set (0.00 sec)
```

5. Display first name, salary, and round the salary to thousands.

```
KD2_Abhishhek_96835>select first_name,salary,round(salary,-3) from employees;
+-----+-----+-----+
| first_name | salary   | round(salary,-3) |
+-----+-----+-----+
| Steven     | 24000.00 |        24000 |
| Neena      | 17000.00 |        17000 |
| Lex         | 17000.00 |        17000 |
| Alexander  | 9000.00  |        9000  |
| Bruce       | 6000.00  |        6000  |
| David       | 4800.00  |        5000  |
| Valli      | 4800.00  |        5000  |
| Diana       | 4200.00  |        4000  |
| Nancy       | 12008.00 |       12000 |
| Daniel      | 9000.00  |        9000  |
| John         | 8200.00  |        8000  |
| Michael     | 13000.00 |       13000 |
| Pat          | 6000.00  |        6000  |
| Susan        | 6500.00  |       7000  |
| Hermann     | 10000.00 |      10000 |
| Shelley     | 12008.00 |       12000 |
| William     | 8300.00  |        8000  |
+-----+-----+-----+
107 rows in set (0.00 sec)
```

6. Display employee ID and the date on which he ended his previous job in the format as mentioned. (Format: Thursday, October 27th 2011)

```
KD2_Abhishhek_96835>select employee_id,end_date,date_format(end_date,'%W %M %D %Y') as job_last_date from job_history;
+-----+-----+-----+
| employee_id | end_date | job_last_date      |
+-----+-----+-----+
|     101 | 2011-10-27 | Thursday October 27th 2011 |
|     101 | 2015-03-15 | Sunday March 15th 2015  |
|     102 | 2016-07-24 | Sunday July 24th 2016  |
|    114 | 2017-12-31 | Sunday December 31st 2017 |
|    122 | 2017-12-31 | Sunday December 31st 2017 |
|    176 | 2016-12-31 | Saturday December 31st 2016 |
|    176 | 2017-12-31 | Sunday December 31st 2017 |
|    200 | 2011-06-17 | Friday June 17th 2011   |
|    200 | 2016-12-31 | Saturday December 31st 2016 |
|    201 | 2017-12-19 | Tuesday December 19th 2017 |
+-----+-----+-----+
10 rows in set (0.04 sec)
```

7. Display first name and date of first salary of the employees. (Consider 1st day of month as salary day.)

```
KD2_Abhishhek_96835>select first_name,DATE_ADD(LAST_DAY(hire_date),interval 1 day) as salary_date from employees;
+-----+-----+
| first_name | salary_date |
+-----+-----+
| Steven     | 2013-07-01 |
| Neena      | 2015-10-01 |
| Lex         | 2011-02-01 |
| Alexander   | 2016-02-01 |
| Bruce       | 2017-06-01 |
| David       | 2015-07-01 |
| Valli      | 2016-03-01 |
| Diana       | 2017-03-01 |
| Nancy       | 2012-09-01 |
| Daniel      | 2012-09-01 |
| John        | 2015-10-01 |
+-----+-----+
| Jennifer   | 2013-10-01 |
| Michael    | 2014-03-01 |
| Pat         | 2015-09-01 |
| Susan       | 2012-07-01 |
| Hermann    | 2012-07-01 |
| Shelley    | 2012-07-01 |
| William    | 2012-07-01 |
+-----+-----+
107 rows in set (0.01 sec)
```

8. Display first name and experience of the employees in the format of number of years, months and days completed.

```
KD2_Abhishhek_96835>SELECT first_name, hire_date, CONCAT(TIMESTAMPDIFF(YEAR,hire_date,CURDATE()),' years ', TIMESTAMPDIFF(MONTH,hire_date,CURDATE())%12,' months ', DATEDIFF(CURDATE(),DATE_ADD(hire_date,INTERVAL TIMESTAMPDIFF(YEAR,hire_date,CURDATE()) YEAR), INTERVAL TIMESTAMPDIFF(MONTH,hire_date,CURDATE())%12 MONTH),' days') AS experience FROM employees;
+-----+-----+-----+
| first_name | hire_date | experience |
+-----+-----+-----+
| Steven     | 2012-06-17 | 12 years 8 months 12 days |
| Neena      | 2015-09-21 | 18 years 5 months 8 days |
| Lex         | 2011-01-13 | 15 years 1 months 16 days |
| Alexander   | 2016-01-03 | 18 years 1 months 26 days |
| Bruce       | 2017-05-21 | 8 years 9 months 8 days |
| David       | 2015-06-25 | 18 years 8 months 4 days |
| Valli      | 2016-02-05 | 18 years 0 months 24 days |
| Diana       | 2017-02-07 | 9 years 0 months 22 days |
| Nancy       | 2012-08-17 | 13 years 6 months 12 days |
| Daniel      | 2012-08-16 | 13 years 6 months 13 days |
+-----+-----+-----+
| Jennifer   | 2013-09-17 | 12 years 5 months 12 days |
| Michael    | 2014-02-17 | 12 years 0 months 12 days |
| Pat         | 2015-08-17 | 10 years 6 months 12 days |
| Susan       | 2012-06-07 | 13 years 8 months 22 days |
| Hermann    | 2012-06-07 | 13 years 8 months 22 days |
| Shelley    | 2012-06-07 | 13 years 8 months 22 days |
| William    | 2012-06-07 | 13 years 8 months 22 days |
+-----+-----+-----+
107 rows in set (0.00 sec)
```

9. Display the employee id, first name and joining date of the employees who joined in the month of august of any year.

```
KD2_Abhishhek_96835>select employee_id,first_name,hire_date as joining_date from employees where hire_date like '____-08__';
+-----+-----+-----+
| employee_id | first_name | joining_date |
+-----+-----+-----+
| 108 | Nancy | 2012-08-17 |
| 109 | Daniel | 2012-08-16 |
| 119 | Karen | 2017-08-10 |
| 129 | Laura | 2015-08-20 |
| 134 | Michael | 2016-08-26 |
| 152 | Peter | 2015-08-20 |
| 158 | Allan | 2014-08-01 |
| 189 | Jennifer | 2015-08-13 |
| 202 | Pat | 2015-08-17 |
+-----+-----+-----+
9 rows in set (0.00 sec)
```

10. Display the details of employees who joined before the year 2015.

```
KD2_Abhishhek_96835>select * from employees where hire_date<'2015-01-01';
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	1.515.555.0100	2013-06-17	AD_PRES	24000.00	NULL	NULL	90
102	Lex	Garcia	LGARCIA	1.515.555.0102	2011-01-13	AD_VP	17000.00	NULL	100	90
108	Nancy	Gruenberg	NGRUENBE	1.515.555.0108	2012-08-17	FI_MGR	12008.00	NULL	101	100
109	Daniel	Faviet	DFAVIET	1.515.555.0109	2012-08-16	FI_ACCOUNT	9000.00	NULL	108	100
114	Den	Li	DLI	1.515.555.0114	2012-12-07	PU_MAN	11000.00	NULL	100	30
115	Alexander	Khoo	AKHOO	1.515.555.0115	2013-05-18	PU_CLERK	3100.00	NULL	114	30
120	Matthew	Weiss	MWEISS	1.650.555.0120	2014-07-18	ST_MAN	8000.00	NULL	100	50
122	Payam	Kaufling	PKAULIN	1.650.555.0122	2013-05-01	ST_MAN	7900.00	NULL	100	50
133	Jason	Mallin	JMALLIN	1.650.555.0133	2014-06-14	ST_CLERK	3300.00	NULL	122	50
137	Renske	Ladwig	RLADWIG	1.650.555.0137	2013-07-14	ST_CLERK	3600.00	NULL	123	50
203	Susan	Jacobs	SJACOBS	1.515.555.0168	2012-06-07	HR REP	6500.00	NULL	101	40
204	Hermann	Brown	HBROWN	1.515.555.0169	2012-06-07	PR REP	10000.00	NULL	101	70
205	Shelley	Higgins	SHIGGINS	1.515.555.0170	2012-06-07	AC_MGR	12008.00	NULL	101	118
206	William	Gietz	WGIEITZ	1.515.555.0171	2012-06-07	AC_ACCOUNT	8300.00	NULL	205	118

24 rows in set (0.01 sec)

11. Display the number of days between system date and 1st January 2011.

```
KD2_Abhishhek_96835>select DATEDIFF(sysdate(),'2011-01-01') as no_of_days;
```

no_of_days
5538

1 row in set (0.01 sec)

12. Display number of employees joined after 15th of any month.

```
KD2_Abhishhek_96835>select COUNT(employee_id) as no_of_emp from employees where day(hire_date)>15;
```

no_of_emp
57

1 row in set (0.01 sec)

13. Display third highest salary of employees.

```
KD2_Abhishhek_96835>select salary from employees order by salary desc limit 3,1;
```

salary
14000.00

1 row in set (0.01 sec)