

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-Abhishek_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-Abhishek_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_Abhishek_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_Abhishek_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_Abhishek_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_Abhishek_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_Abhishek_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_Abhishek_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	2013-06-17	12 years 8 months 12 days
Neena	2015-09-21	10 years 5 months 8 days
Lex	2011-01-13	15 years 1 months 16 days
Alexander	2016-01-03	10 years 1 months 26 days
Bruce	2017-05-21	8 years 9 months 8 days
David	2015-06-25	10 years 8 months 4 days
Valli	2016-02-05	10 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_Abhishek_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_Abhishek_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	12000.00	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	PKAUFLIN	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	12000.00	NULL	101	110
206	William	Gietz	WGIEZT	1.515.555.0171	2012-06-07	AC_ACCOUNT	8300.00	NULL	205	110

24 rows in set (0.01 sec)

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

```
KD2_Abhishek_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_Abhishek_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_Abhishek_96835>select salary from employees order by salary desc limit 3,1;
+-----+
| salary |
+-----+
| 14000.00 |
+-----+
1 row in set (0.01 sec)
```