Single Row functions

```
mysql> select * from emp;
+-------+--------+-----------+------+------------+---------+---------+--------+
| EMPNO | ENAME  | JOB       | MGR  | HIREDATE   | SAL     | COMM    | DEPTNO |
+-------+--------+-----------+------+------------+---------+---------+--------+
|  7369 | SMITH  | CLERK     | 7902 | 1980-12-17 |  800.00 |    NULL |     20 |
|  7499 | ALLEN  | SALESMAN  | 7698 | 1981-02-20 | 1600.00 |  300.00 |     30 |
|  7521 | WARD   | SALESMAN  | 7698 | 1981-02-22 | 1250.00 |  500.00 |     30 |
|  7566 | JONES  | MANAGER   | 7839 | 1981-04-02 | 2975.00 |    NULL |     20 |
|  7654 | MARTIN | SALESMAN  | 7698 | 1981-09-28 | 1250.00 | 1400.00 |     30 |
|  7698 | BLAKE  | MANAGER   | 7839 | 1981-05-01 | 2850.00 |    NULL |     30 |
|  7782 | CLARK  | MANAGER   | 7839 | 1981-06-09 | 2450.00 |    NULL |     10 |
|  7788 | SCOTT  | ANALYST   | 7566 | 1982-12-09 | 3000.00 |    NULL |     20 |
|  7839 | KING   | PRESIDENT | NULL | 1981-11-17 | 5000.00 |    NULL |     10 |
|  7844 | TURNER | SALESMAN  | 7698 | 1981-09-08 | 1500.00 |    0.00 |     30 |
|  7876 | ADAMS  | CLERK     | 7788 | 1983-01-12 | 1100.00 |    NULL |     20 |
|  7900 | JAMES  | CLERK     | 7698 | 1981-12-03 |  950.00 |    NULL |     30 |
|  7902 | FORD   | ANALYST   | 7566 | 1981-12-03 | 3000.00 |    NULL |     20 |
|  7934 | MILLER | CLERK     | 7782 | 1982-01-23 | 1300.00 |    NULL |     10 |
+-------+--------+-----------+------+------------+---------+---------+--------+
14 rows in set (0.00 sec)
```

1. To list all employees and their email, to generate email use 2 to 5 characters from ename

Concat it with 2 to 4 characters in job and then concat it with '@mycompany.com'

```
mysql> select ename, concat(substr(ename,2,3),'.',substr(ename,2,3),'@gmail.com') from emp;
+--------+-------------------------------------------------------------+
| ename  | concat(substr(ename,2,3),'.',substr(ename,2,3),'@gmail.com') |
+--------+-------------------------------------------------------------+
| ADAM_S | DAM.DAM@gmail.com                                            |
| SMITH  | MIT.MIT@gmail.com                                            |
| ALLEN  | LLE.LLE@gmail.com                                            |
| WARD   | ARD.ARD@gmail.com                                            |
| JONES  | ONE.ONE@gmail.com                                            |
| MARTIN | ART.ART@gmail.com                                            |
| BLAKE  | LAK.LAK@gmail.com                                            |
| CLARK  | LAR.LAR@gmail.com                                            |
| SCOTT  | COT.COT@gmail.com                                            |
| KING   | ING.ING@gmail.com                                            |
| TURNER | URN.URN@gmail.com                                            |
| ADAMS  | DAM.DAM@gmail.com                                            |
| JAMES  | AME.AME@gmail.com                                            |
| FORD   | ORD.ORD@gmail.com                                            |
| MILLER | ILL.ILL@gmail.com                                            |
+--------+-------------------------------------------------------------+
15 rows in set (0.00 sec)
```

2. List all employees who joined in September.

```
mysql> select ename, monthname(hiredate) from emp where monthname(hiredate)='september';
+--------+---------------------+
| ename  | monthname(hiredate) |
+--------+---------------------+
| MARTIN | September           |
| TURNER | September           |
+--------+---------------------+
```

3. List the empno, name, and department number of the emp who have experience of 18 or

more years and sort them based on their experience.

```
mysql> select empno, ename, deptno, floor(datediff('1999-12-31',hiredate)/365) exp from emp having exp>=18 order by exp;
+-------+--------+--------+------+
| empno | ename  | deptno | exp  |
+-------+--------+--------+------+
|  7499 | ALLEN  |     30 |   18 |
|  7521 | WARD   |     30 |   18 |
|  7566 | JONES  |     20 |   18 |
|  7654 | MARTIN |     30 |   18 |
|  7698 | BLAKE  |     30 |   18 |
|  7782 | CLARK  |     10 |   18 |
|  7839 | KING   |     10 |   18 |
|  7844 | TURNER |     30 |   18 |
|  7900 | JAMES  |     30 |   18 |
|  7902 | FORD   |     20 |   18 |
|  7369 | SMITH  |     20 |   19 |
+-------+--------+--------+------+
11 rows in set (0.00 sec)
```

4. Display the employee details who joined on 3rd of any month or any year

```
mysql> select ename, monthname(hiredate) from emp where monthname(hiredate)='December';
+--------+---------------------+
| ename  | monthname(hiredate) |
+--------+---------------------+
| SMITH  | December            |
| SCOTT  | December            |
| JAMES  | December            |
| FORD   | December            |
+--------+---------------------+
4 rows in set (0.00 sec)
```

5. display all employees who joined between years 1981 to 1983.

```
mysql> select ename,year(hiredate) from emp where year(hiredate) between '1981' and '1983';
+--------+----------------+
| ename  | year(hiredate) |
+--------+----------------+
| ALLEN  |           1981 |
| WARD   |           1981 |
| JONES  |           1981 |
| MARTIN |           1981 |
| BLAKE  |           1981 |
| CLARK  |           1981 |
| SCOTT  |           1982 |
| KING   |           1981 |
| TURNER |           1981 |
| ADAMS  |           1983 |
| JAMES  |           1981 |
| FORD   |           1981 |
| MILLER |           1982 |
+--------+----------------+
```