DATABASE ASSIGNMENT 7

Date and Time functions:

1. Write a query to display the first day of the month (in datetime format) three months before the current month. Sample current date: 2014-09-03 Expected result: 2014-06-01

2. Write a query to display the last day of the month (in datetime format) three months before the current month.

3. Write a query to get the distinct Mondays from hiredate in emp tables.

4. Write a query to get the first day of the current year.

5. Write a query to get the last day of the current year.

6. Write a query to calculate your age in year.

7. Write a query to get the current date in the following format.

Sample date: 04-sep-2014 Output: September 4, 2014

```
mysql> select date_format(curdate(), '%M %d, %Y');
+------+
| date_format(curdate(), '%M %d, %Y') |
+------+
| March 23, 2024 |
+-----+
1 row in set (0.00 sec)
```

8. Write a query to get the current date in Thursday September 2014 format. (Thursday September 2014).

9. Write a query to extract the year from the current date.

10. Write a query to get the first name and hire date from employees table where hire date between '1987-06-01' and '1987-07-30'

```
mysql> select ename, hiredate from emp where hiredate between '1981-09-01' and '1981-12-31';
+-----+
| ename | hiredate |
+-----+
| MARTIN | 1981-09-28 |
| KING | 1981-11-17 |
| TURNER | 1981-09-08 |
| JAMES | 1981-12-03 |
| FORD | 1981-12-03 |
+-----+
5 rows in set (0.00 sec)
```

11. Write a query to display the current date in the following format. Sample output: Thursday 4th September 2014 00:00:00

12. Write a query to display the current date in the following format. Sample output: 05/09/2014

13. Write a query to display the current date in the following format. Sample output: 12:00 AM Sep 5, 2014

14. Write a query to get the employees who joined in the month of June.

15. Write a query to get the years in which more than 10 employees joined.

16. Write a query to get first name of employees who joined in 1987.

```
mysql> select ename, hiredate from emp where hiredate between '1981-01-01' and '1981-12-31' order by ename limit 1;
+-----+
| ename | hiredate |
+-----+
| ALLEN | 1981-02-20 |
+-----+
1 row in set (0.03 sec)
```

17. Write a query to get employees whose experience is more than 5 years.

```
nysql> select empno,ename,floor( datediff('1987-12-31',hiredate)/365) expirence from emp having expirence >5;
 empno | ename | expirence |
   7499
7521
          ALLEN
WARD
          JONES
MARTIN
          BLAKE
CLARK
          KING
TURNER
           JAMES
nysql> select empno,ename,floor(datediff('1987-12-31',hiredate)/365) expirence from emp where floor(datediff('1987-12-31',hiredate)/365)>5;
 empno | ename | expirence |
          SMITH
ALLEN
   7521
7566
          WARD
JONES
   7654
          MARTIN
          BLAKE
CLARK
          KING
TURNER
11 rows in set (0.00 sec)
```

18. Write a query to get employee ID, last name, and date of first salary of the employees.

```
mysql> select empno,ename,hiredate, date_add(hiredate, interval 1 month) payDate from emp;
 empno | ename | hiredate | payDate
   7369
         SMITH
                 | 1980-12-17 | 1981-01-17
                 1981-02-20 | 1981-03-20
         ALLEN
   7499
        WARD
                 1981-02-22 | 1981-03-22
  7521
   7566
        JONES
                 1981-04-02 | 1981-05-02
        | MARTIN | 1981-09-28 | 1981-10-28
   7654
   7698
        BLAKE
                 | 1981-05-01 | 1981-06-01
   7782
        CLARK
                 1981-06-09 | 1981-07-09
        SCOTT
                 | 1982-12-09 | 1983-01-09
   7788
                  1981-11-17 | 1981-12-17
   7839
         KING
         TURNER | 1981-09-08 | 1981-10-08
ADAMS | 1983-01-12 | 1983-02-12
   7844
   7876
                   1981-12-03 | 1982-01-03
   7900
          JAMES
                   1981-12-03
   7902
          FORD
                                1982-01-03
         MILLER | 1982-01-23 | 1982-02-23
   7934
14 rows in set (0.00 sec)
```

19. Write a query to get first name, hire date and experience of the employees.

Sample table: employees

```
mysql> select empno,ename,hiredate,floor( datediff('1987-12-31',hiredate)/365) expirence from emp ;
 empno | ename | hiredate
                              expirence
  7369
         SMITH
                  1980-12-17
                  1981-02-20
                                        6
  7499
         ALLEN
  7521
         WARD
                  1981-02-22
   7566
         JONES
                   1981-04-02
                                        6
         MARTIN
                  1981-09-28
   7654
   7698
         BLAKE
                  1981-05-01
                                        6
                  1981-06-09
  7782
         CLARK
         SCOTT
                   1982-12-09
   7788
                                        6
                  1981-11-17
   7839
         KING
   7844
          TURNER
                  1981-09-08
   7876
         ADAMS
                   1983-01-12
          JAMES
                   1981-12-03
   7900
                  1981-12-03
   7902
         FORD
                                        6
   7934
         MILLER
                  1982-01-23
                                        5
14 rows in set (0.00 sec)
```

20. Write a query to get the department ID, year, and number of employees joined.

nysql> se	elect empno, year	(hiredate),	count(*)	from	emp	group	by	empno;	
empno	year(hiredate)	count(*)							
+		++ !							
7369	1980	1							
7499	1981	1							
7521	1981	1							
7566	1981	1							
7654	1981	1							
7698	1981	1							
7782	1981	1							
7788	1982	1							
7839	1981	1							
7844	1981	1							
7876	1983	1							
7900	1981	1							
7902	1981	1							
7934	1982	1							
+	+	++							
14 rows	in set (0.00 sec)								
	,								
						,			