Q1:- Write a query to display your birthday(day of week)
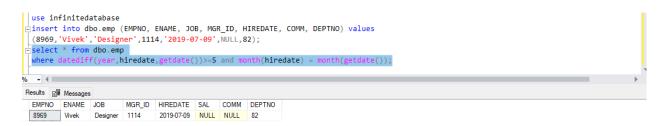
```sql
--Write a query to display your birthday( day of week)\
select DATENAME(weekday, '2001-04-13') AS 'DaysOfWeek';
```

100 %

⊞ Results ⊟ Messages

	DaysOfWeek
1	Friday

Q2:- Write a query to display your age in days

```sql
--Write a query to display your age in days
select DATEDIFF(DAY, '2001-04-13',GETDATE()) AS 'AgeOfAmaanInDays';
```

100 %

⊞ Results ⊟ Messages

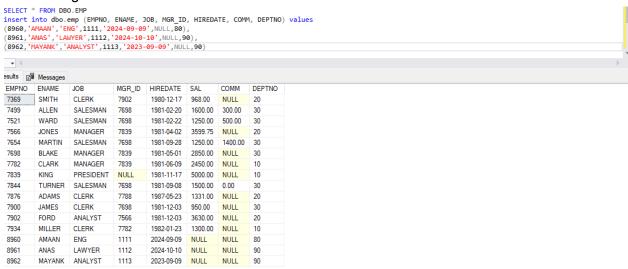|	AgeOfAmaanInDays
1	8496

Q3:- A Query to display all employees information those who joined before 5 years in the current month
(Adding the value dated to 5 years back in the current month)

```sql
use infinitedatabase
insert into dbo.emp (EMPNO, ENAME, JOB, MGR_ID, HIREDATE, COMM, DEPTNO) values
(8969,'Vivek','Designer',1114,'2019-07-09',NULL,82);
select * from dbo.emp
where datediff(year,hiredate,getdate())>=5 and month(hiredate) = month(getdate());
```

Results ⊟ Messages

EMPNO	ENAME	JOB	MGR_ID	HIREDATE	SAL	COMM	DEPTNO
8969	Vivek	Designer	1114	2019-07-09	NULL	NULL	82

Q4:-
1:- Inserting the first three rows

```sql
SELECT * FROM DBO.EMP
insert into dbo.emp (EMPNO, ENAME, JOB, MGR_ID, HIREDATE, COMM, DEPTNO) values
(8960,'AMAAN','ENG',1111,'2024-09-09',NULL,80),
(8961,'ANAS','LAWYER',1112,'2024-10-10',NULL,90),
(8962,'MAYANK','ANALYST',1113,'2023-09-09',NULL,90)
```

esults ⊟ Messages

EMPNO	ENAME	JOB	MGR_ID	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	1980-12-17	968.00	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	3599.75	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
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	1987-05-23	1331.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3630.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
8960	AMAAN	ENG	1111	2024-09-09	NULL	NULL	80
8961	ANAS	LAWYER	1112	2024-10-10	NULL	NULL	90
8962	MAYANK	ANALYST	1113	2023-09-09	NULL	NULL	90

2:- updating the second row with the increase in 15% in Salary

```
UPDATE dbo.emp SET sal = sal * 1.15 WHERE ename = 'ANAS';
```

	EMPNO	ENAME	JOB	MGR_ID	HIREDATE	SAL	COMM	DEPTNO
1	7369	SMITH	CLERK	7902	1980-12-17	968.00	NULL	20
2	7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
3	7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
4	7566	JONES	MANAGER	7839	1981-04-02	3599.75	NULL	20
5	7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
6	7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
8	7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
9	7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
10	7876	ADAMS	CLERK	7788	1987-05-23	1331.00	NULL	20
11	7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
12	7902	FORD	ANALYST	7566	1981-12-03	3630.00	NULL	20
13	7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
14	8960	AMAAN	ENG	1111	2024-09-09	NULL	NULL	80
15	8961	ANAS	LAWYER	1112	2024-10-10	11500.00	NULL	90
16	8962	MAYANK	ANALYST	1113	2023-09-09	NULL	NULL	90

3:- Deleting the first row that I have inserted and displaying and then recalling it again at the same position.

```
DELETE from dbo.emp where empno = 8960 AND ename = 'AMAAN';
INSERT INTO dbo.emp (empno, ename, job, MGR_ID, hiredate, comm, sal)
VALUES (8960, 'AMAAN', 'ENG', 1111, '2024-09-09', NULL, 80);
```

	EMPNO	ENAME	JOB	MGR_ID	HIREDATE	SAL	COMM	DEPTNO
1	7369	SMITH	CLERK	7902	1980-12-17	968.00	NULL	20
2	7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
3	7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
4	7566	JONES	MANAGER	7839	1981-04-02	3599.75	NULL	20
5	7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
6	7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
8	7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
9	7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
10	7876	ADAMS	CLERK	7788	1987-05-23	1331.00	NULL	20
11	7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
12	7902	FORD	ANALYST	7566	1981-12-03	3630.00	NULL	20
13	7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
14	8960	AMAAN	ENG	1111	2024-09-09	80.00	NULL	NULL
15	8961	ANAS	LAWYER	1112	2024-10-10	11500.00	NULL	90
16	8962	MAYANK	ANALYST	1113	2023-09-09	NULL	NULL	90

Q5:- Function that Gives Bonus to the Employees based on their department number

```sql
create function dbo.calcBonus(@DeptNo int, @Sal float)
returns float
as
begin
    declare @Bonus float;
    if @DeptNo = 10 set @Bonus = 0.15 * @Sal;
    else if @DeptNo = 20 set @Bonus = 0.20 * @Sal;
    else
        set @Bonus = 0.05 * @Sal;

    return @Bonus;
end;


select empno, ename, job, deptno, sal, dbo.calcBonus(deptno, sal) as Bonus
from dbo.emp;
```

esults | Messages

empno	ename	job	deptno	sal	Bonus
7369	SMITH	CLERK	20	968.00	193.6
7499	ALLEN	SALESMAN	30	1600.00	80
7521	WARD	SALESMAN	30	1250.00	62.5
7566	JONES	MANAGER	20	3599.75	719.95
7654	MARTIN	SALESMAN	30	1250.00	62.5
7698	BLAKE	MANAGER	30	2850.00	142.5
7782	CLARK	MANAGER	10	2450.00	367.5
7839	KING	PRESIDENT	10	5000.00	750
7844	TURNER	SALESMAN	30	1500.00	75
7876	ADAMS	CLERK	20	1331.00	266.2
7900	JAMES	CLERK	30	950.00	47.5
7902	FORD	ANALYST	20	3630.00	726
7934	MILLER	CLERK	10	1300.00	195