Q1:- Retrieve a list of Managers

	EMPNO	ENAME	JOB	MGR_ID	HIREDATE	SAL	COMM	DEPTNO
1	7566	JONES	MANAGER	7839	1981-04-02	3599.75	NULL	20
2	7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
3	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10

Q2:- Find out the names and salaries of all the employees who earns more than 1000 per month

	ename	sal
1	ALLEN	1600.00
2	WARD	1250.00
3	JONES	3599.75
4	MARTIN	1250.00
5	BLAKE	2850.00
6	CLARK	2450.00
7	SCOTT	3630.00
8	KING	5000.00
9	TURNER	1500.00
10	ADAMS	1331.00
11	FORD	3630.00
12	MILLER	1300.00

Q3:- Display the names and salaries of all employees except JAMES.

	ename	sal
1	SMITH	968.00
2	ALLEN	1600.00
3	WARD	1250.00
4	JONES	3599.75
5	MARTIN	1250.00
6	BLAKE	2850.00
7	CLARK	2450.00
8	SCOTT	3630.00
9	KING	5000.00
10	TURNER	1500.00
11	ADAMS	1331.00
12	FORD	3630.00
13	MILLER	1300.00

Q4:- Find out the details of employees whose names begin with 'S'.

	EMPNO	ENAME	JOB	MGR_ID	HIREDATE	SAL	COMM	DEPTNO
1	7369	SMITH	CLERK	7902	1980-12-17	968.00	NULL	20
2	7788	SCOTT	ANALYST	7566	1987-04-19	3630.00	NULL	20

Q5:- Find out the names of all employees that have 'A' anywhere in their name.

	EMPNO	ENAME	JOB	MGR_ID	HIREDATE	SAL	COMM	DEPTNO
1	7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
2	7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
3	7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
4	7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
5	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
6	7876	ADAMS	CLERK	7788	1987-05-23	1331.00	NULL	20
7	7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30

Q6:- Find out the names of all employees that have 'L' as their third character in their name.

	EMPNO	ENAME	JOB	MGR_ID	HIREDATE	SAL	COMM	DEPTNO
1	7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
2	7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

Q7:- Compute the daily salary of JONES.

	ename	Daily_Salary
1	JONES	119.991666

Q8:- Calculate the total monthly salary of all employees.

	Total_Monthly_Salary
1	31308.75

Q9:- Print the average annual salary .

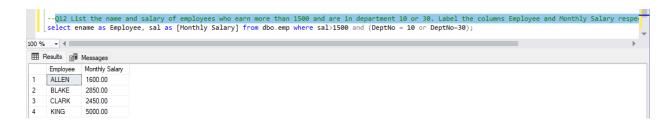|	Average_Annual_Salary
1	26836.071428

Q10:- Select the name, job, salary, department number of all employees except SALESMAN from department number 30.

```
--Q10 Select the name, job, salary, department number of all employees except SALESMAN from department number 30.
select ename, job, sal, DEPTNO from dbo.emp where job <> 'salesman' and DEPTNO = 30;
```
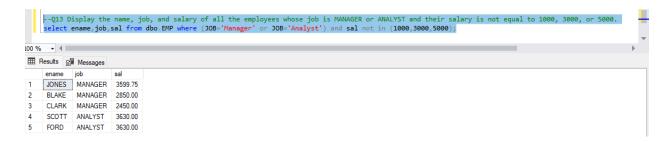
	ename	job	sal	DEPTNO
1	BLAKE	MANAGER	2850.00	30
2	JAMES	CLERK	950.00	30

Q11:- List unique departments of the EMP table.

```
--Q11 List unique departments of the EMP table.
select distinct DEPTNO from dbo.emp;
```

	DEPTNO
1	10
2	20
3	30

Q12:- List the name and salary of employees who earn more than 1500 and are in department 10 or 30. Label the columns Employee and Monthly Salary respectively.

```
--Q12 List the name and salary of employees who earn more than 1500 and are in department 10 or 30. Label the columns Employee and Monthly Salary respe
select ename as Employee, sal as [Monthly Salary] from dbo.emp where sal>1500 and (DeptNo = 10 or DeptNo=30);
```
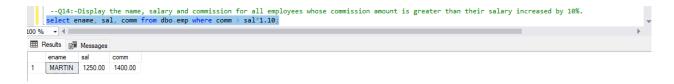
	Employee	Monthly Salary
1	ALLEN	1600.00
2	BLAKE	2850.00
3	CLARK	2450.00
4	KING	5000.00

Q13:- Display the name, job, and salary of all the employees whose job is MANAGER or ANALYST and their salary is not equal to 1000, 3000, or 5000.

```
--Q13 Display the name, job, and salary of all the employees whose job is MANAGER or ANALYST and their salary is not equal to 1000, 3000, or 5000.
select ename,job,sal from dbo.EMP where (JOB='Manager' or JOB='Analyst') and sal not in (1000,3000,5000);
```

	ename	job	sal
1	JONES	MANAGER	3599.75
2	BLAKE	MANAGER	2850.00
3	CLARK	MANAGER	2450.00
4	SCOTT	ANALYST	3630.00
5	FORD	ANALYST	3630.00

Q14:- Display the name, salary and commission for all employees whose commission amount is greater than their salary increased by 10%.

```sql
--Q14:-Display the name, salary and commission for all employees whose commission amount is greater than their salary increased by 10%.
select ename, sal, comm from dbo.emp where comm > sal*1.10;
```
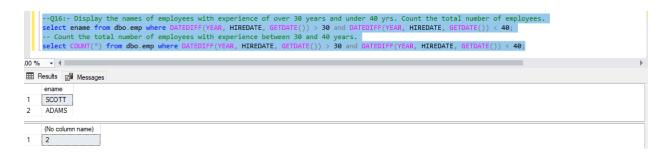
	ename	sal	comm
1	MARTIN	1250.00	1400.00

Q15:- Display the name of all employees who have two Ls in their name and are in department 30 or their manager is 7782.

```sql
--Q15:-Display the name of all employees who have two Ls in their name and are in department 30 or their manager is 7782.
select ename from dbo.emp where ename like '%L%L%' and (DEPTNO = 30 OR MGR_ID = 7782);
```

	ename
1	ALLEN
2	MILLER

Q16:- Display the names of employees with experience of over 30 years and under 40 yrs. Count the total number of employees.

```sql
--Q16:- Display the names of employees with experience of over 30 years and under 40 yrs. Count the total number of employees.
select ename from dbo.emp where DATEDIFF(YEAR, HIREDATE, GETDATE()) > 30 and DATEDIFF(YEAR, HIREDATE, GETDATE()) < 40;
-- Count the total number of employees with experience between 30 and 40 years.
select COUNT(*) from dbo.emp where DATEDIFF(YEAR, HIREDATE, GETDATE()) > 30 and DATEDIFF(YEAR, HIREDATE, GETDATE()) < 40;
```

	ename
1	SCOTT
2	ADAMS

	(No column name)
1	2

Q17:- Retrieve the names of departments in ascending order and their employees in descending order

```
--Q17:- Retrieve the names of departments in ascending order and their employees in descending order.
with DeptEmp as (
    select D.DNAME as Department, E.ENAME as Employee
    from dbo.DEPT D
    join dbo.EMP E on D.DEPTNO = E.DEPTNO
)
select Department, Employee
from DeptEmp
order by Department asc, Employee desc;
```

00 %

Results | Messages

	Department	Employee
1	ACCOUNTING	MILLER
2	ACCOUNTING	KING
3	ACCOUNTING	CLARK
4	RESEARCH	SMITH
5	RESEARCH	SCOTT
6	RESEARCH	JONES
7	RESEARCH	FORD
8	RESEARCH	ADAMS
9	SALES	WARD
10	SALES	TURNER
11	SALES	MARTIN
12	SALES	JAMES
13	SALES	BLAKE
14	SALES	ALLEN

Q18:- Find out the experience of MILLER.

```
--Q18 Find out the experience of Miller
with EmployeeExperience as (
    select ENAME, HIREDATE,
           DATEDIFF(YEAR, HIREDATE, GETDATE()) as Experience_Years
    from dbo.EMP
)
select ENAME, Experience_Years
from EmployeeExperience
where ENAME = 'MILLER';
```

100 %

Results | Messages

	ENAME	Experience_Years
1	MILLER	42