

PROGRAM 4

RETRIEVING DATA EMPLOYEE TABLE :-

1. Retrieve employees who joined before 30-Jun-1980 or after 31-Dec-1981.
 2. Display the names of employees whose second alphabet is 'A'.
 3. Display the names of employees whose name consists of exactly 5 characters.
 4. Display the names of employees whose second alphabet is 'A'. (*Repeated*)
 5. List employees who are not working as Salesman, Clerk, or Analyst.
 6. Display employee name and annual salary, showing the highest salary first.
 7. Display name, salary, HRA, DA, PF, and total salary, where:
 - HRA = 15% of salary
 - DA = 10% of salary
 - PF = 5% of salary
- Total Salary = (Salary + HRA + DA) – PF
8. Update salary by 10% increment for employees not eligible for commission.
 9. Display employees whose salary will be greater than 3000 after a 20% increment.
 10. Display employees whose salary contains at least 3 digits.

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT * FROM employee
-> WHERE hiredate < '1980-06-30' OR hiredate > '1981-12-31';
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7788	SCOTT	ANALYST	7566	1982-12-09	3000	NULL	40
7876	ADAMS	CLERK	7788	1983-01-12	1100	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300	NULL	10

```
3 rows in set (0.113 sec)
```

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT ename
-> FROM employee
-> WHERE ename LIKE '_A%';
```

ename
WARD
MARTIN
JAMES

```
3 rows in set (0.005 sec)
```

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT ename  
-> FROM employee  
-> WHERE LENGTH(ename) = 5;
```

ename
SMITH
ALLEN
JONES
BLAKE
CLARK
SCOTT
ADAMS
JAMES

8 rows in set (0.006 sec)

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT ename FROM employee  
-> WHERE ename LIKE '_A%';
```

ename
WARD
MARTIN
JAMES

3 rows in set (0.001 sec)

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT ename  
-> FROM employee  
-> WHERE job NOT IN ('SALESMAN', 'CLERK', 'ANALYST');
```

ename
JONES
BLAKE
CLARK
KING

4 rows in set (0.003 sec)

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT ename, sal*12 AS annual_salary FROM employee
-> ORDER BY sal DESC;
```

ename	annual_salary
KING	60000
SCOTT	36000
FORD	36000
JONES	35700
BLAKE	34200
CLARK	29400
ALLEN	19200
TURNER	18000
MILLER	15600
MARTIN	15000
WARD	15000
ADAMS	13200
JAMES	11400
SMITH	9600

14 rows in set (0.007 sec)

```
-> (sal + (sal*0.15) + (sal*0.10) - (sal*0.05)) AS totalsal
-> FROM employee
-> ORDER BY totalsal DESC;
```

ename	sal	hra	da	pf	totalsal
KING	5000	750.00	500.00	250.00	6000.00
SCOTT	3000	450.00	300.00	150.00	3600.00
FORD	3000	450.00	300.00	150.00	3600.00
JONES	2975	446.25	297.50	148.75	3570.00
BLAKE	2850	427.50	285.00	142.50	3420.00
CLARK	2450	367.50	245.00	122.50	2940.00
ALLEN	1600	240.00	160.00	80.00	1920.00
TURNER	1500	225.00	150.00	75.00	1800.00
MILLER	1300	195.00	130.00	65.00	1560.00
MARTIN	1250	187.50	125.00	62.50	1500.00
WARD	1250	187.50	125.00	62.50	1500.00
ADAMS	1100	165.00	110.00	55.00	1320.00
JAMES	950	142.50	95.00	47.50	1140.00
SMITH	800	120.00	80.00	40.00	960.00

14 rows in set (0.007 sec)

```
MariaDB [VARUN_SINGH_2CSE9]> UPDATE employee SET sal = sal + (sal * 0.10)
-> WHERE comm IS NULL OR comm = 0;
```

Query OK, 11 rows affected, 1 warning (0.014 sec)

Rows matched: 11 Changed: 11 Warnings: 1

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT ename FROM employee WHERE sal + (sal * 0.20) > 3000;
```

ename
JONES
BLAKE
CLARK
SCOTT
KING
FORD

6 rows in set (0.001 sec)

```
MariaDB [VARUN_SINGH_2CSE9]> SELECT ename, sal FROM employee WHERE LENGTH(sal) >= 3;
```

ename	sal
SMITH	880
ALLEN	1600
WARD	1250
JONES	3273
MARTIN	1250
BLAKE	3135
CLARK	2695
SCOTT	3300
KING	5500
TURNER	1650
ADAMS	1210
JAMES	1045
FORD	3300
MILLER	1430

14 rows in set (0.002 sec)