Name: Aadil Khan

Roll No: 20

**FYCS** 

Practical No: 3

- A) U sing emp table, perform the following queries:1) Display the details of all employees.

EMP_NO	ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_N
7782 7566 7788 7902 7369 7499 7521 7654 7844 7876	BLAKE CLARK JONES SCOTT FORD SMITH ALLEN WARD MARTIN TURNER ADAMS JAMES	PRESIDENT MANAGER MANAGER MANAGER ANALYST CLERK SALESMAN SALESMAN SALESMAN SALESMAN CLERK CLERK	7839 7839 7566 7566 7902 7698 7698 7698 7788 7698	17-N0V-81 01-MAY-81 09-JUN-81 09-JUN-81 02-APR-81 19-APR-87 03-DEC-81 17-DEC-80 20-FEB-81 22-FEB-81 28-SEP-81 08-SEP-81 23-MAY-87 03-DEC-81	5000 2850 2450 2975 3000 3000 800 1600 1250 1250 1100 950	300 500 1400 0	10 30 11 20 20 20 30 30 30 31
7654 7844 7876 7900	MARTIN TURNER ADAMS	SALESMAN SALESMAN CLERK	7698 7698 7788 7698	28-SEP-81 08-SEP-81 23-MAY-87	1250 1500 1100	1400	

2) Display the name and job for all employees.

```
SQL> select Ename,Job from aadil_emp;
ENAME
            J0B
KING
            PRESIDENT
BLAKE
            MANAGER
CLARK
            Manager
JONES
            MANAGER
           ANALYST
SCOTT
           ANALYST
FORD
            CLERK
SMITH
ALLEN
            SALESMAN
WARD
            SALESMAN
MARTIN
            SALESMAN
TURNER
            SALESMAN
           CLERK
ADAMS
JAMES
           CLERK
MILLER
           CLERK
14 rows selected.
SOL>
```

3) Display name and salary for all employees.

```
SQL> select Ename,SAL from aadil_emp;
ENAME
                     SAL
KING
                    5000
                    2850
2450
BLAKE
CLARK
JONES
                    2975
SCOTT
                    3000
FORD
                    3000
SMITH
                     800
                    1600
ALLEN
                   1250
1250
WARD
MARTIN
                    1500
TURNER
adams
                    1100
JAMES
                    950
MILLER
                    1300
14 rows selected.
SQL>
```

4) Display the details of all employees who are earning salary greater than 2000.

SQL> select 2 where	t * from aad SAL>2000;	dil_emp					
EMP_NO	ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_NO
7698 7782 7566 7788 7902	KING BLAKE CLARK JONES SCOTT FORD	PRESIDENT MANAGER MANAGER MANAGER ANALYST ANALYST	7839 7839 7566	17-NOV-81 01-MAY-81 09-JUN-81 02-APR-81 19-APR-87 03-DEC-81	5000 2850 2450 2975 3000		10 30 10 20 20 20
6 rows sele	ected.						

5) Display the details of all employees who are working as Manager.

SQL> select 2 where	t * from aac Job='MANAGE	dil_emp ER';					
EMP_N0	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT_NO
7782	BLAKE CLARK JONES	MANAGER MANAGER MANAGER	7839	01-MAY-81 09-JUN-81 02-APR-81	2850 2450 2975		30 10 20

6) Display the names of all employees who are working in department number 10.

SQL:	<pre>SQL&gt; select * from aadil_emp 2 where Dept_no=10;</pre>							
	EMP_N0	ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_NO
	7839 7782 7934	KING CLARK MILLER	PRESIDENT MANAGER CLERK		17-NOV-81 09-JUN-81 23-JAN-82	5000 2450 1300		10 10 10 10

7) Display the names of all employees working as clerk and drawing a salary more than 3000

```
SQL> select * from aadil_emp
2 where Job='CLERK' and SAL>3000;
no rows selected
```

8) Display employee number and names for employees who earn commission.

```
SQL> select Emp_no,Ename,comm from aadil_emp

2 where comm>0;

EMP_NO ENAME COMM

7499 ALLEN 300

7521 WARD 500

7654 MARTIN 1400
```

9) Display names of employees who do not earn any commission

```
SQL> select Emp_no,Ename,comm from aadil_emp

2 where comm is null;

EMP_NO ENAME COMM

7839 KING

7698 BLAKE

7782 CLARK

7566 JONES

7788 SCOTT

7902 FORD

7369 SMITH

7876 ADAMS

7900 JAMES

7934 MILLER
```

10) Display the names of employees who are working as clerk, salesman or analyst and drawing a salary more than 2000.

```
SQL> select Ename from aadil_emp
2 where Job in('CLERK','SALESMAN','ANALYST')and SAL>2000;
ENAME
-----SCOTT
FORD
```

11) Display the names of employees who are working as clerk, salesman or analyst.

```
SQL> select Ename from aadil_emp
2 where Job in('CLERK','SALESMAN','ANALYST');

ENAME
------
SCOTT
FORD
SMITH
ALLEN
WARD
MARTIN
TURNER
ADAMS
JAMES
MILLER

10 rows selected.
```

12) Display the names of employees working in department number 10 or 20 or 30.



13) Display the details of employees whose salary lies in the range of 1000 and 2000.

	t * from aa SAL between	dil_emp n 1000 and 3000;					
EMP_NO	ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_NO
7782 7566 7788 7902 7499 7521 7654 7844 7876	BLAKE CLARK JONES SCOTT FORD ALLEN WARD MARTIN TURNER ADAMS MILLER	MANAGER MANAGER MANAGER ANALYST ANALYST SALESMAN SALESMAN SALESMAN SALESMAN CLERK CLERK	7839 7839 7566 7566 7698 7698 7698 7698 7788	01-MAY-81 09-JUN-81 02-APR-81 19-APR-87 03-DEC-81 20-FEB-81 22-FEB-81 28-SEP-81 08-SEP-81 23-MAY-87 23-JAN-82	2850 2450 2975 3000 3000 1600 1250 1250 1500 1100	300 500 1400 0	30 10 20 20 20 30 30 30 20 10

14) List the employees in the ascending order of their salaries.

EMP_NO ENAME	J0B	MGR HIREDATE	SAL	COMM	DEPT_NO
7369 SMITH	CLERK	7902 17-DEC-80	800		20
7900 JAMES	CLERK	7698 03-DEC-81	950		30
7876 ADAMS	CLERK	7788 23-MAY-87	1100		20
7654 MARTIN	SALESMAN	7698 28-SEP-81	1250	1400	30
7521 WARD	SALESMAN	7698 22-FEB-81	1250	500	30
7934 MILLER	CLERK	7782 23-JAN-82	1300		10
7844 TURNER	SALESMAN	7698 08-SEP-81	1500	0	30
7499 ALLEN	SALESMAN	7698 20-FEB-81	1600	300	30
7782 CLARK	MANAGER	7839 09-JUN-81	2450		10
7698 BLAKE	MANAGER	7839 01-MAY-81	2850		30
7566 JONES	MANAGER	7839 02-APR-81	2975		20
7902 FORD	ANALYST	7566 03-DEC-81	3000		20
7788 SCOTT	ANALYST	7566 19-APR-87	3000		$\bar{2}\bar{0}$
7839 KING	PRESIDENT	17-N0V-81	5000		$ar{f 1}ar{f 0}$

15) List the Empno, Ename, Sal of all emps working for Mgr 7369.

```
SQL> select Emp_no,Ename,SAL from aadil_emp
2 where MGR=7369;
no rows selected
```

16) List the employees who are either 'CLERK' or 'ANALYST' in the Desc order.

	t * from aa by Job des	dil_emp where Jol c;	o= 'CL	ERK' or Job='ANI	ALYST'		
EMP_NO	ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_NO
7900 7934 7876 7902	SMITH JAMES MILLER ADAMS FORD SCOTT	CLERK CLERK CLERK CLERK ANALYST ANALYST	7698 7782 7788 7566	17-DEC-80 03-DEC-81 23-JAN-82 23-MAY-87 03-DEC-81 19-APR-87	800 950 1300 1100 3000		20 30 10 20 20 20
6 rows sel	ected.						

17) List the employees who are working in Deptno 10 or 20.

EMP_NO ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_NO
7839 KING	PRESIDENT		17-N0V-81	5000		10
7782 CLARK 7566 JONES	MANAGER MANAGER		09-JUN-81 02-APR-81	2450 2975		10 20
7788 SCOTT	ANALYST		19-APR-87	3000		20
7902 FORD	ANALYST		03-DEC-81	3000		20
7369 SMITH 7876 ADAMS	CLERK CLERK		17-DEC-80 23-MAY-87	800 1100		20 20
7934 MILLER	CLERK		23-JAN-82	1300		10

18) List the employees whose name have a character set 'll' together.

SQL> select 2 where E	* from aad	il emp		stor dot ii togotiio			
EMP_NO E	ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_N0
	ALLEN MILLER			20-FEB-81 23-JAN-82	1600 1300	300	30 10

19) List the employees in ascending order of their names.

END NO E	NONE	IOD	иев	итрепоте	eni	CONN	DEDT NO
EMP_NU E	NHME	J0B	MUK	HIREDATE	5HL	COMM	DEPT_NO
7876 A	DAMS	CLERK	7788	23-MAY-87	1100		20
7499 A				20-FEB-81	1600	300	50
7698 B				01-MAY-81	2850	000	30
7782 C				09-JUN-81	2450		10
7902 F				03-DEC-81	3000		20
7900 J				03-DEC-81			30
7566 J				02-APR-81			20
7839 K		PRESIDENT		17-N0V-81	5000		10
7654 M	ARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7934 M	ILLER	CLERK	7782	23-JAN-82	1300		10
7788 S	COTT	ANALYST	7566	19-APR-87	3000		20
7369 S			7902	17-DEC-80	800		20
				08-SEP-81		0	30
7521 W	ARN	SALESMAN	7698	22-FEB-81	1250	500	30

20) List the employees in descending order of their names.

		SAL	COMM	DEPT_NC
SALESMAN	7698 22-FEB-83	1 1250	500	30
SALESMAN			0	30
				20
				20
				1
			1400	3
				1
				2
				3
				2
				1
			000	3
SHLESMHN CLERK			300	3 2
	SALESMAN CLERK ANALYST CLERK SALESMAN PRESIDENT MANAGER CLERK ANALYST MANAGER MANAGER SALESMAN	SALESMAN         7698         08-SEP-81           CLERK         7902         17-DEC-80           ANALYST         7566         19-APR-81           CLERK         7782         23-JAN-82           SALESMAN         7698         28-SEP-81           PRESIDENT         17-NOV-81           MANAGER         7839         02-APR-81           CLERK         7698         03-DEC-81           ANALYST         7566         03-DEC-81           MANAGER         7839         09-JUN-81           MANAGER         7839         01-MAY-81           SALESMAN         7698         20-FEB-81	SALESMAN       7698       08-SEP-81       1500         CLERK       7902       17-DEC-80       800         ANALYST       7566       19-APR-87       3000         CLERK       7782       23-JAN-82       1300         SALESMAN       7698       28-SEP-81       1250         PRESIDENT       17-NOV-81       5000         MANAGER       7839       02-APR-81       2975         CLERK       7698       03-DEC-81       950         ANALYST       7566       03-DEC-81       3000         MANAGER       7839       09-JUN-81       2450         MANAGER       7839       01-MAY-81       2850         SALESMAN       7698       20-FEB-81       1600	SALESMAN       7698       08-SEP-81       1500       0         CLERK       7902       17-DEC-80       800         ANALYST       7566       19-APR-87       3000         CLERK       7782       23-JAN-82       1300         SALESMAN       7698       28-SEP-81       1250       1400         PRESIDENT       17-NOV-81       5000         MANAGER       7839       02-APR-81       2975         CLERK       7698       03-DEC-81       950         ANALYST       7566       03-DEC-81       3000         MANAGER       7839       09-JUN-81       2450         MANAGER       7839       01-MAY-81       2850         SALESMAN       7698       20-FEB-81       1600       300

21) List the employees who do not belong to Deptno 20.

EMP_NO ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_NO
7839 KING	PRESIDENT	7000	17-N0V-81	5000		10
7698 BLAKE 7782 CLARK	MANAGER MONAGER		01-MAY-81 09-JUN-81	2850 2450		30 10
7499 ALLEN	SALESMAN		20-FEB-81	1600	300	30
7521 WARD	SALESMAN		22-FEB-81	1250	500	30
7654 MARTIN	SALESMAN		28-SEP-81	1250	1400	30
7844 TURNER	SALESMAN CLERK		08-SEP-81	1500	0	30
7900 JAMES 7934 MILLER	CLERK		03-DEC-81 23-JAN-82	950 1300		30 10

22) List all the employees except PRESIDENT and MANAGER.

EMP_NO	ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_NO
7902 7369 7499 7521 7654 7844 7876 7900	SMITH ALLEN WARD MARTIN TURNER ADAMS JAMES MILLER	ANALYST ANALYST CLERK SALESMAN SALESMAN SALESMAN SALESMAN CLERK CLERK CLERK	7566 7902 7698 7698 7698 7698 7788 7698	19-APR-87 03-DEC-81 17-DEC-80 20-FEB-81 22-FEB-81 28-SEP-81 08-SEP-81 23-MAY-87 03-DEC-81 23-JAN-82	3000 3000 800 1600 1250 1250 1500 1100 950	300 500 1400 0	20 20 20 30 30 30 30 20 30

23) List the employees whose name starts with A.

SQL> select * from aadil_emp 2 where Ename like 'A%';								
EMP_N0	ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_NO	
1 43 3	ALLEN ADAMS			20-FEB-81 23-MAY-87	1600 1100	300	30 20	

24) List all the Clerks of Deptno 20.

SQL> select 2 where	SQL> select * from aadil_emp 2 where Job='CLERK' and Dept_no=20;								
EMP_N0	ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_NO		
	SMITH ADAMS			17-DEC-80 23-MAY-87	800 1100		20 20		

25) List the employees whose names ends with S.

SQL> select * from aadil_emp 2 where Ename like '%S';									
EMP_N0	ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_NO		
7876	JONES ADAMS JAMES	MANAGER CLERK CLERK	7788	02-APR-81 23-MAY-87 03-DEC-81	2975 1100 950		20 20 30		

26) List the employees who has name of exactly 4 characters.

<pre>\$QL&gt; select * from aadil_emp 2 where Ename like '';</pre>									
EMP_NO ENAME	J0B	MGR	HIREDATE	SAL	COMM	DEPT_NO			
7839 KING 7902 FORD 7521 WARD	PRESIDENT ANALYST SALESMAN		17-N0V-81 03-DEC-81 22-FEB-81	5000 3000 1250	500	10 20 30			

27) List the names of the employees who are working as MANAGER in department 10.

SQL 2	SQL> select * from aadil_emp 2 where Job='MANAGER' and Dept_no=10;									
	EMP_N0	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT_NO		
	7782	CLARK	MANAGER	7839	09-JUN-81	2450		10		

28) List the total salary of employees working as ANALYST.

```
SQL> select sum(SAL)
2 from aadil_emp
3 where Job='ANALYST';
SUM(SAL)
------
6000
```

29) List the minimum, maximum and average salary of the employees.

```
SQL> select MIN(SAL), MAX(SAL), AVG(SAL) from aadil_emp;

MIN(SAL) MAX(SAL) AVG(SAL)

800 5000 2073.21429
```

30) List the total number of employees working in department 10.

```
SQL> select Dept_no, count(*)
2 from aadil_emp
3 group by Dept_no;

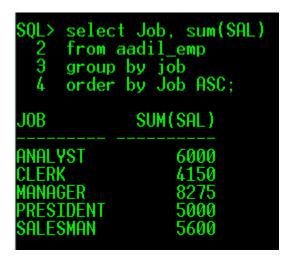
DEPT_NO COUNT(*)

30 6
20 5
10 3
```

- B) Answer the following queries:
- 1) Display the total salary of employees department wise

```
SQL> select Dept_no, sum(SAL) from aadil_emp
2 group by Dept_no;
DEPT_NO SUM(SAL)
30 9400
20 10875
10 8750
```

2) Display the total salary of employees job wise in ascending order of job.



3) Display the total number of employees with a specific job.



4) Display the total number of employees working in each department.

```
SQL> select Dept_no, count(*)
2  from aadil_emp
3  group by Dept_no;

DEPT_NO    COUNT(*)

30     6
20     5
10     3
```

5) Display the total salary of employees specific to job and department in ascending order of job.

```
select Job, Dept_no, sum(SAL)
from aadil_emp
  23
     group by Job, Dept_no
     order by Job:
               DEPT NO
                           SUM(SAL)
JOB
ANALYST
                     20
                                6000
                     10
                                1300
CLERK
                     20
CLERK
                                1900
                     30
                                 950
                     10
                                2450
                     20
                     30
                     10
                                5000
                     30
SALESMAN
                                5600
 rows selected.
```

6) Display the total salary of the employees specific to the job when employee count is greater than 1

7) Display unique jobs of employees

```
SQL> select distinct Job
2 from aadil_emp;
JOB
_____
CLERK
SALESMAN
PRESIDENT
MANAGER
ANALYST
```