

DBMS LAB REPORT

Lab Number : 3

Date : 27 January, 2022

Name of the student : Ashish Kumar Mishra

Roll Number : 20051685

Branch : Computer Science and Engineering

Section : CSE -10

Student Table :

SQL> connect C_20051685

Enter password:

Connected.

SQL> select * from Student;

ROLL NAME	CITY	AGE	CGPA
101 Ram	Bhubaneswar	19	9
102 Hari	Bhubaneswar		6.7
103 Uday	Jharkhand	20	8.97
104 Vikas	Uttar Pradesh	19	8.5
105 Sweta	Ranchi	19	9.2
106 Yogesh	Rajasthan	18	7.9
210 Smriti	Delhi	20	8.99
211 Sudam	Cuttack	21	8.6
212 Vikas	Kolkata	23	5.98
165 Manish		19	9.15

10 rows selected.

```
SQL> select * from Student;
```

ROLL NAME	CITY	AGE	CGPA
101 Ram	Bhubaneswar	19	9
102 Hari	Bhubaneswar		6.7
103 Uday	Jharkhand	20	8.97
104 Vikas	Uttar Pradesh	19	8.5
105 Sweta	Ranchi	19	9.2
106 Yogesh	Rajasthan	18	7.9
210 Smriti	Delhi	20	8.99
211 Sudam	Cuttack	21	8.6
212 Vikas	Kolkata	23	5.98
165 Manish		19	9.15

10 rows selected.

1. Find the name of the student whose roll no is 106.

```
SQL> select name from student where roll=106;
```

NAME

Yogesh

```
SQL> select name from student where roll=106;

NAME
-----
Yogesh
```

2. Find the city where Sweta lives.

```
SQL> select city from student where name= 'Sweta';
```

CITY

Ranchi

```
SQL> select city from student where name= 'Sweta';

CITY
-----
Ranchi
```

3. Display the details about Uday.

```
SQL> select * from student where name= 'Uday';
```

ROLL NAME	CITY	AGE	CGPA
-----	-----	-----	-----
103 Uday	Jharkhand	20	8.97

```
SQL> select * from student where name= 'Uday';
```

ROLL NAME	CITY	AGE	CGPA
103 Uday	Jharkhand	20	8.97

4. Name those students whose cgpa is between 8.0 and 9.0.

```
SQL> select * from student where cgpa between 8.0 and 9.0;
```

ROLL NAME	CITY	AGE	CGPA
101 Ram	Bhubaneswar	19	9
103 Uday	Jharkhand	20	8.97
104 Vikas	Uttar Pradesh	19	8.5
210 Smriti	Delhi	20	8.99
211 Sudam	Cuttack	21	8.6

```
SQL> select * from student where cgpa between 8.0 and 9.0;
```

ROLL NAME	CITY	AGE	CGPA
101 Ram	Bhubaneswar	19	9
103 Uday	Jharkhand	20	8.97
104 Vikas	Uttar Pradesh	19	8.5
210 Smriti	Delhi	20	8.99
211 Sudam	Cuttack	21	8.6

5. Display the details of the students older than 19.

```
SQL> select * from student where age > 19;
```

ROLL NAME	CITY	AGE	CGPA
103 Uday	Jharkhand	20	8.97
210 Smriti	Delhi	20	8.99
211 Sudam	Cuttack	21	8.6
212 Vikas	Kolkata	23	5.98

```
SQL> select * from student where age > 19;
```

ROLL	NAME	CITY	AGE	CGPA
103	Uday	Jharkhand	20	8.97
210	Smriti	Delhi	20	8.99
211	Sudam	Cuttack	21	8.6
212	Vikas	Kolkata	23	5.98

6. Find the roll no of the student who belongs to bhubaneswar and has a cgpa not less than 8.

```
SQL> select roll from student where city='Bhubaneswar' AND cgpa>=8;
```

ROLL
101

```
SQL> select roll from student where city='Bhubaneswar' AND cgpa>=8;
```

ROLL
101

7. Name those students whose name start with 'S'.

```
SQL> select NAME from student where NAME like 'S%';
```

NAME
Sweta
Smriti
Sudam

```
SQL> select NAME from student where NAME like 'S%';
```

```
NAME
```

```
-----
```

```
Sweta
```

```
Smriti
```

```
Sudam
```

8. Display the roll no and cgpa+0.5 of students.

```
SQL> select roll, cgpa+0.5 from student;
```

```
ROLL  CGPA+0.5
```

```
-----
```

```
101    9.5
```

```
102    7.2
```

```
103    9.47
```

```
104     9
```

```
105    9.7
```

```
106    8.4
```

```
210    9.49
```

```
211    9.1
```

```
212    6.48
```

```
165    9.65
```

10 rows selected.

```
SQL> select roll, cgpa+0.5 from student;
```

```
ROLL  CGPA+0.5
```

```
-----
```

```
101    9.5
```

```
102    7.2
```

```
103    9.47
```

```
104     9
```

```
105    9.7
```

```
106    8.4
```

```
210    9.49
```

```
211    9.1
```

```
212    6.48
```

```
165    9.65
```

10 rows selected.

9. Display the different cities from where the students have come from.

```
SQL> select distinct city from student;
```

CITY

Kolkata
Jharkhand
Rajasthan
Delhi
Ranchi
Bhubaneswar
Uttar Pradesh
Cuttack

9 rows selected.

```
SQL> select distinct city from student;
```

CITY

Kolkata
Jharkhand
Rajasthan
Delhi
Ranchi
Bhubaneswar
Uttar Pradesh
Cuttack

9 rows selected.

Employee Table :

SQL> set linesize 200;

SQL> select * from employee;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO				
7369	SMITH	CLERK	7902	17-DEC-80	800
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600
7521	WARD	SALESMAN	7698	22-FEB-81	1250
7566	JONES	MANAGER	7839	02-APR-81	2975
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250
7698	BLAKE	MANAGER	7839	01-MAY-81	2850
7782	CLARK	MANAGER	7839	09-JUN-81	2450
7788	SCOTT	ANALYST	7566	09-NOV-81	3000
7839	KING	PRESIDENT		17-NOV-81	5000
7844	TURNER	SALESMAN	7698	08-SEP-81	1500
7876	ADAMS	CLERK	7788	23-SEP-81	1100

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO				
7900	JAMES	CLERK	7698	03-DEC-81	950
7902	FORD	ANALYST	7566	03-DEC-81	3000
7934	MILLER	CLERK	7782	23-JAN-82	1300

14 rows selected.


```
SQL> set linesize 200;
SQL> select * from employee;
```

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

14 rows selected.

10. List down the salesman from employee table.

```
SQL> select * from employee where job='SALESMAN';
```

EMPNO	ENAME	JOB	MGR	HIREDATE
SAL	COMM	DEPTNO		
7499	ALLEN	SALESMAN	7698	20-FEB-81
1600	300	30		
7521	WARD	SALESMAN	7698	22-FEB-81
1250	500	30		
7654	MARTIN	SALESMAN	7698	28-SEP-81
1250	1400	30		
7844	TURNER	SALESMAN	7698	08-SEP-81
1500	0	30		

```
SQL> select * from employee where job='SALESMAN';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30

11. Display the hiredate of employee 7654 in dd-mm-yyyy format.

```
SQL> select to_char(hiredate, 'DD/MM/YYYY') as hiredate from  
employee where empno=7654;
```

HIREDATE

28/09/1981

```
SQL> select to_char(hiredate, 'DD/MM/YYYY') as hiredate from employee where empno=7654;
```

HIREDATE

28/09/1981

12. Display the different designations of employees who dont get any commision.

```
SQL> select distinct job from employee where comm is NULL;
```

JOB

CLERK
PRESIDENT
MANAGER
ANALYST

```
SQL> select distinct job from employee where comm is NULL;
```

```
JOB
```

```
-----
```

```
CLERK
```

```
PRESIDENT
```

```
MANAGER
```

```
ANALYST
```

13. Name those employees whose name contains 'A' and 'E' both in any order at any positions.

```
SQL> select ename from employee where ename LIKE '%A%' AND  
ename LIKE '%E%';
```

```
ENAME
```

```
-----
```

```
ALLEN
```

```
BLAKE
```

```
JAMES
```

```
SQL> select ename from employee where ename LIKE '%A%' AND ename LIKE '%E%';
```

```
ENAME
```

```
-----
```

```
ALLEN
```

```
BLAKE
```

```
JAMES
```

14. List down the employee details whose manager id is 7839.

```
SQL> select * from employee where MGR=7839;
```

```
      EMPNO ENAME      JOB              MGR HIREDATE  
      SAL   COMM  DEPTNO
```

```
-----
```

```
-----
```

7566 JONES	MANAGER	7839 02-APR-81
2975 20		
7698 BLAKE	MANAGER	7839 01-MAY-81
2850 30		
7782 CLARK	MANAGER	7839 09-JUN-81
2450 10		

```
SQL> select * from employee where MGR=7839;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10

```
SQL> select ENAME from employee where MGR is NULL;
```

15. Name that employee who doesnt have a manager.

```
SQL> select ENAME from employee where MGR is NULL;
```

ENAME

KING

```
SQL> select ENAME from employee where MGR is NULL;
```

ENAME

KING

16. Display the employee detail whose manager id is 7566, belong to deptno 20 and dont get any commision.

```
SQL> SELECT * FROM EMPLOYEE WHERE MGR=7566 AND DEPTNO=20 AND COMM IS NULL;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7788	SCOTT	ANALYST	7566	09-NOV-81	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20

```
SQL> SELECT * FROM EMPLOYEE WHERE MGR=7566 AND DEPTNO=20 AND COMM IS NULL;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7788	SCOTT	ANALYST	7566	09-NOV-81	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20