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Batch CSE-06

Branch CSE

Subject DBMS

Assignment 3

Ques 1 Display all employee names (last name & first name separated by a comma & a space) & salary

select concat(fname, concat(' ', lname)) as Fullname,
salary as Salary from employee;

column salary format \$999,999;

```
SQL> column salary format $999,999
SQL> select concat(fname,concat(' ',lname)) as Fullname, salary as Salary from employee;
```

FULLNAME	SALARY
John, Smith	\$291,500
Larry, Houston	\$150,000
Nikhil, Gupta	\$75,000
Derek, Dave	\$80,000
Alex, McCall	\$66,500

```
SQL>
```

Ques 2 Display all employees who do not get any commission.

select Fname, Lname from employee where commission is NULL;

```
SQL> select Fname, Lname from employee where commission is NULL;
```

FNAME	LNAME
Nikhil	Gupta
Alex	McCall

Ques 3 Display unique building names from Location table
select distinct building from Location;

```
SQL> select distinct building from location;
```

BUILDING
WingC
WingB
WingD
WingA

Ques 4 Display all course section offered in winter 2003.

select * from term where termdesc = 'Spring2024'

```
SQL> select * from term where termdesc = 'Spring2024';
```

TERMID	TERMDESC	STARTDATE	ENDDATE
SP24	Spring2024	19-JAN-24	02-JUN-24

Que 5 Display names of faculty members who work in department 1 or 2. Use IN operator in your query.

select name from faculty where deptId in (1,2);

```
SQL> select name from faculty where deptId in(1,2);
```

NAME

Rajdeep

HimansuDas

Que 6 Find all Manhattan & Scottsdale students.

select * from student where city in ('Manhattan', 'Scottsdale');

```
SQL> select * from student where city in ('Manhattan', 'Scottsdale');
```

STUDENTID PHONE	LNAME	FNAME	STREET	CITY	STATE	ZIP	STARTTERM	BIRTHDATE	FACULTYID	MAJORID

00100 273011131 00103 568347231	Cruise	Tom	BleeckerStreet	Manhattan	NY	10012	2005	30-APR-02 123	100	8
	Rickles	Deborah	NorthKierland	Scottsdale	Arizona	85254	2017	21-JUN-01 431	400	7

Que 7 Give a 10% raise to employee number 111.

update employee set salary = salary + (salary * 10/100)
where employeeid = '111';

```
SQL> update employee set salary = salary+(salary*10/100) where employeeid = '111';
```

1 row updated.

```
SQL> select * from employee;
```

EMPLOYEEID	LNAME	FNAME	POSITIONID	SUPERVISOR	HIREDATE	SALARY	COMMISSION	DEPTID	QUALID

111	Smith	John	1		15-APR-60	\$320,650	35000	10	1
246	Houstan	Larry	2	111	19-MAY-67	\$150,000	10000	40	2
123	Gupta	Nikhil	2	111	12-FEB-91	\$75,000		10	2
543	Dave	Derek	2	111	15-MAR-95	\$80,000	20000	20	1
433	McCall	Alex	3	543	05-MAY-97	\$66,500		20	4

Ques 8 ~~Date~~ Delete department number 30 from the department table. If it is not successful, write down your suggestion to make it work.

delete from department where deptid = '30';

```
SQL> delete from department where deptid='30';
```

```
1 row deleted.
```

```
SQL> select * from department;
```

DEPTID	DEPTNAME	FACULTYID
1	Computer Science	111
2	Telecommunication	222
3	Electronics	123
4	Accounting	444
5	Mechanical	555

Ques 9 For each course id, display the maximum count in descending order.

select CSID, maxcount from crssection order by maxcount desc.

```
SQL> select CSID, maxcount from crssection order by maxcount desc;
```

CSID	MAXCOUNT
1103	45
1102	40
1105	35
1104	30
1101	30

Ques 10 Insert a new term in the Term Table

Insert into term values('7007', 'MidTerm', TO_DATE('2022-01-03', 'YYYY-MM-DD'), TO_DATE('2022-06-20', 'YYYY-MM-DD'));

```
SQL> insert into term values('7007','MidTerm',TO_DATE('2022-01-03','YYYY-MM-DD'),TO_DATE('2022-06-20','YYYY-MM-DD'));
1 row created.

SQL> select * from term;
```

TERMID	TERMDISC	STARTDATE	ENDDATE
SP22	Spring2022	03-JAN-22	01-JUN-22
AT22	Autumn2022	03-JUL-22	18-JAN-23
SP23	Spring2023	19-JAN-23	02-JUN-23
AT23	Autumn2023	03-JUL-23	18-JAN-24
SP24	Spring2024	19-JAN-24	02-JUN-24
7007	MidTerm	03-JAN-22	20-JUN-22

```
6 rows selected.
```

Ques 12 Find courses with no required prerequisite.
 select * from course where prereq is NULL;

```
SQL> select * from course where prereq is NULL;
```

COURSEID	TITLE	CREDITS	PREREQ
CS1001	DSA	4	
CO1004	COA	3	

Ques 13 Display faculty names in descending order by their department, but in alphabetical order by their name within each department.

select name, deptid from faculty order by name, deptid desc;

```
SQL> select name, deptid from faculty order by name, deptid desc;
```

NAME	DEPTID
Biswajit	3
Collins	5
HimansuDas	2
Rajdeep	1
Williams	4

Ques 14 Find faculty member whose name start with c.

select name from faculty where name LIKE 'C%';

```
SQL> select name from faculty where name LIKE 'C%';
```

```
NAME
```

```
-----
```

```
Collins
```

Ques 15 Find students who started in year 2022. Use start term column & wildcard.

select * from term where To_Char(startDate, 'dd.mm.yyyy') LIKE '%01.2022';

```
SQL> SELECT * FROM term WHERE TO_CHAR(startDate, 'dd.mm.yyyy') LIKE '%01.2022';
```

TERMID	TERMDESC	STARTDATE	ENDDATE
-----	-----	-----	-----
SP22	Spring2022	03-JAN-22	01-JUN-22
7007	MidTerm	03-JAN-22	20-JUN-22

Ques 16 Create a custom prompt from user to input any values between 50 + 99 into deptID column.

ACCEPT deptID Prompt 'Enter the department ID which should be > 50 + < 100''

```
SQL> accept deptid prompt 'Enter the DepartmentID which should be > 50 and < 100';
Enter the DepartmentID which should be > 50 and < 100 90
SQL>
```

Ques 17 Write SQL Plus command to display a character column in 30 column, + a numeric column with 9,999.99 format

Column salary Format 9,999,999.99

Column LName Format A30;

select * from employee;

```
SQL> COLUMN salary FORMAT 9,999,999.99;
SQL> COLUMN Lname FORMAT A30;
SQL> select * from employee;
```

EMPLOYEEID	LNAME	FNAME	POSITIONID	SUPERVISOR	HIREDATE	SALARY	COMMISSION	DEPTID	QUALID
111	Smith	John	1		15-APR-60	320,650.00	35000	10	1
246	Houstan	Larry	2	111	19-MAY-67	150,000.00	10000	40	2
123	Gupta	Nikhil	2	111	12-FEB-91	75,000.00		10	2
543	Dave	Derek	2	111	15-MAR-95	80,000.00	20000	20	1
433	McCall	Alex	3	543	05-MAY-97	66,500.00		20	4