practice DQL statement

Write SQL statement for the following

1. To find all managers with salary >1500

2. list all employees with sal >1200 and < 2000

2. list all employees with sal is 1600 or sal is 800 or sal is 1900

4. list all employees with R at second last position in name

5. List all employees with name starts with A and ends with N

Q2. Solve following

1. list all employees with salary > 1250 and dept no=30
2. list all employees with salary >=1250 and <= 3000
3. list all employees with salary >1250 and < 3000
4. list all employees with salary either equal to 3000 or 1250 or 2500
5. list all employee with name=SMITH
6. list all employees with name starting with S
7. list all employees with name ending with S
8. list all employees with name contains I at 2nd position
9. list all employees with name starts with A ends with N and somewhere in between L is there
10. list all employees with name starts with A and B at 3 rd position and P at second last position
11. List all employees with name starts with either A or starts with S or starts with W

practice Aggregate functions

12. find max sal and min sal for each job
13. find how many employess have not received commission
14. find sum of sal of all employees working in dept no 10
15. find maximum salary,average sal for each job in every department
16. find max salary for every department if deptno is > 15 and arrange data in deptno order.
17. find sum salary for every department if sum is > 3000
18. list all department which has minimum 5 employees
19. count how many employees earn salary more than 2000 in each job
20. list all enames and jobs in small case letter
21. list all names and jobs so that the length of name should be 15 if it is smaller then add spaces to left
22. display min sal,max sal, average sal for all employees working under same manager
23. find sum of total earnings(sal+comm), average of sal+comm,
    for all employees who earn sal > 2000 and work in either dept no 10 or 20
24. list all employees who joined in Aug 1980 and salary is >1500 and < 2500
25. list all employees joined in either aug or may or dec
26. display name and hiredate in dd/mm/yy format for all employees whose job is clerk and they earn some commission

27. list empcode,empno,name and job for each employee. (note :empcode is 3 to 5 characters from name and last 2 characters of job)
28. display thousand separator and $ symbol for commission if it is null then display it as 0 for all employees whose name starts with A and ends with N

29. Display empid,name,sal,comm,remark Remark should base on following conditions

    comm >= 600 "excellent Keep it up"

    if it < 600 or not null "good"

    otherwise "Need improvement"

30. Display empid, name, deptno and department name by using following conditions.

    dept 10 then "Hr"

    if 20 then "Admin"

    if 30 then "accounts"

    otherwise purchase

Topic ---------- create Table, DML , subquery and joins

31. Practice creating following tables
    MySQL syntax:

```
create table mydept_DBDA
(
deptid int primary key,
dname varchar(20) not null unique,
dloc varchar(20)
)
```

Oracle syntax:

```
create table mydept_DBDA
(
deptid number primary key,
dname varchar2(20) not null unique,
dloc varchar2(20)
)
```

```
insert into mydept_DBDA values(30,'Purchase','Mumbai');
```

MySql syntax:

```
create table myemployee
(
empno int primary key,
fname varchar(15) not null,
mname varchar(15),
lname varchar(15) not null,
sal float(9,2) check(sal >=1000),
doj date,
passportnum varchar(15) unique,
deptno int,
constraint fk_deptno foreign key(deptno) references mydept_DBDA(deptid) on delete set null
on update cascade
)
```

Oracle syntax:

```
create table myemployee
(
empno number(5) primary key,
fname varchar2(15) not null,
mname varchar2(15),
lname varchar2(15) not null,
sal number(9,2) check(sal >=1000),
doj date default sysdate,
passportnum varchar2(15) unique,
deptno number constraint fk_deptno references mydept_DBDA(deptid) on delete cascade
)
```

32. Create following tables Student, Course

Student (sid,sname) ---------- sid ---primary key

Course(cid,cname)---------- cid ---primary key

Marks(studid,courseid,marks)

Sample data for marks table

studid,courseid,marks

1 1 99

1 3 98

2 1 95

2 2 97

```
create table marks(
studid number,
courseid number,
marks number,
constraint pk primary key(studid,courseid),
constraint fk_sid foreign key (studid) references student(sid) on delete cascade,
constraint fk_cid foreign key (courseid) references course(cid)
)
```

33. Create empty table emp10 with table structure same as emp table.

```
create table emp10 as
(
select *
from emp
where 1=2;
)
```

34. Solve following using alter table
add primary key constraint on emp,dept,salgrade

emp ----→ empno

dept---→ deptno

salgrade---→ grade

add foreign key constarint in emp

deptno --->> dept(deptno)

add new column in emp table netsal with constraint default 1000

35. Update employee sal ---- increase sal of each employee by 15 % sal +comm, change the job to manager and mgr to 7777 for all employees in deptno 10.
36. change job of smith to senior clerk

37. increase salary of all employees by 15% if they are earning some commission
38. list all employees with sal>smith's sal
39. list all employees who are working in smith's department
40. list all employees with sal < rajan's sal and salary > revati's sal
41. delete all employees working in alan's department
42. change salary of Alan to the salary of Miller.
43. change salary of all emplees who working in Wall's department to the salary of Miller.
44. list all employees with salary > either Smith's salary or alan's sal
45. list all employees who earn more than average sal of dept 10
46. list all employees who earn more than average sal of Alan's department
47. list all employees who are working in purchase department
48. list all employees who earn more than average salary of their own department
49. list all employees who earn sal < than their managers salary
50. list all employees who are earning more than average salary of their job
51. display employee name and department
52. display empno,name,department name and grade (use emp,dept and salgrade table)
53. list all employees number,name, mgrno and manager name
54. create following tables and solve following questions(primary keys are marked in yellow) foreign keys are marked in green

    product(pid,pname,price,qty,cid,sid)

    salesman (sid,sname,address)

    category(cid,cnam,descritpion)

    1. list all product name,their category name and name of a person, who sold that product
    2. list all product name and salesman name for all salesman who stays in pune

    3. list all product name and category name

55. create following tables and solve following questions(primary keys are marked in yellow) foreign keys are marked in green

faculty(fid,fname,sp.skill1,sp.skill2)

courses(cid,cname,rid,fid)

room(roomid,rname,rloc)

faculty

fid	fname	spskill1	spskill2
10	kjzhcjhz	a	b
11	sdd	x	z
12	lksjk	a	x
13	ksdjlkj	a	b

courses

cid	cname	rid	fid
121	DBDA	100	10
131	DAC	101	
141	DTISS		
151	DIOT	105	12

Room

roomid	rname	rloc
100	jasmin	1st floor
101	Rose	2nd floor
105	Lotus	1st floor
103	Mogra	1st floor

1. list all courses for which no room is assigned and all rooms for which are available

2. list all faculties who are not allocated to any course and rooms which are not allocated to any course
3. list all rooms which are allocated or not allocated to any courses

4. list all rooms which are not allocated to any courses
5. display courses and faculty assigned to those courses whose special skill is database
6. display time table --- it should contain course details , faculty and room details

56. create following tables with given constraints

product---- qty >0, default 20.00,pname not null and unique

prodid	pname	qty	price	catid	sid
123	lays	30	30.00	1	12
111	pepsi	40	50.00	4	11
134	nachos	50	50.00	1	12
124	dairy milk	40	60.00	2	14
124	pringles	40	60.00	1	14

saleman ----- sname -----not null

sid	sname	city
11	Rahul	Pune
12	Kirti	Mumbai
13	Prasad	Nashik
14	Arnav	Amaravati

category ---- cname unique and not null

cid	cname	description
1	chips	very crunchy
2	chocolate	very chocolaty
3	snacks	yummy
4	cold drinks	thanda thanda cool cool

1. List all products with category chips
2. display all products sold by kirti
3. display all salesman who do not sold any product
4. display all category for which no product is there

5. display all products with no category assigned
6. list all salesman who stays in city with name starts with P or N
7. add new column in salesman table by name credit limit
