Question 1

1. select staff\_name,staff\_sal,dept\_code from staff\_masters where dept\_code=40 or dept\_code=20 or dept\_code=30 order by dept\_code;
2. select staff\_name as name,staff\_code as code,design\_code as dcode,dept\_code as department\_code,hiredate as date\_of\_joining, staff\_dob as date\_of\_birth,staff\_sal as salary from staff\_masters;
3. select student\_code,student\_year,subject1+subject2+subject3 as total\_marks from student\_marks;
4. select \* from staff\_masters s,designation\_masters d where s.design\_code=d.design\_code and (d.design\_name='Professor' or d.design\_name='Lecturer');
5. select staff\_code,staff\_name,dept\_code from staff\_masters where (sysdate-hiredate)/365>18;
6. select staff\_name as name,design\_name as designation from staff\_masters,designation\_masters where hiredate<'1-january-03' and designation\_masters.design\_code=staff\_masters.design\_code;
7. select staff\_name as name,design\_name as designation,staff\_sal\*10 as salary from staff\_masters,designation\_masters where dept\_code in(10,30) and designation\_masters.design\_code=staff\_masters.design\_code;
8. select staff\_name ,round((sysdate-hiredate)/365,0) as experience from staff\_masters,designation\_masters where staff\_masters.design\_code=designation\_masters.design\_code and design\_name='Professor';
9. select student\_name||','||' '||dept\_code as student\_info from student\_masters;
10. select staff\_name,staff\_sal from staff\_masters where staff\_sal between 12000 and 25000 order by staff\_name,staff\_sal asc;
11. select staff\_masters.staff\_name from staff\_masters,designation\_masters where staff\_masters.design\_code= designation\_masters.design\_code and design\_name!='manager';
12. select staff\_name,design\_code,dept\_code,staff\_dob from staff\_masters where staff\_dob between '1-jan-1981' and '3-mar-2003';

Question 2

1. select to\_char(to\_date(student\_dob),'month')||','||extract(month from student\_dob)||','||extract(year from student\_dob) from student\_masters where to\_char(to\_date(student\_dob),'fmday') in('saturday','sunday');
2. select staff\_name, floor(months\_between(to\_date(sysdate),hiredate)) as months\_worked from staff\_masters order by months\_worked asc
3. select \* from staff\_masters,designation\_masters where (staff\_masters.design\_code=designation\_masters.design\_code) and (Staff\_masters.staff\_name like 'a%s’;
4. select staff\_masters.staff\_name, designation\_masters.design\_code from designation\_masters,staff\_masters where (staff\_masters.staff\_name=designation\_masters.design\_code) and (staff\_masters.staff\_name like '\_n%' or staff\_masters.staff\_name like '\_\_n%') and (staff\_masters.staff\_name like ‘%[ns]’);
5. select staff\_name, lpad(staff\_sal,15,'$') as salary from staff\_masters;
6. select staff\_name from staff\_masters where staff\_name like ‘%[\_]%’;
7. select \* from staff\_masters,designation\_masters where staff\_masters.design\_code=designation\_masters.design\_code) and o\_char(hiredate,'MON')='DEC';
8. select staff\_name ,staff\_sal, case when staff\_sal>=50000 then 'A' when staff\_sal between 24999 and 50000 then 'B' when staff\_sal between 9999 and 25000 then 'C' else 'D' end as GRADE from staff\_masters;
9. select staff\_name,hiredate, to\_char(hiredate,'DAY') as DAY from staff\_masters order by to\_char(hiredate-1,'d') ASC;
10. ----
11. -----
12. select hiredate from staff\_masters where to\_char(hiredate,'dd')<15;
13. select staff\_name,hiredate, to\_char(hiredate,’DAY’) WeekDay form staff\_masters where to\_char(hireadate-1,’d’)
14. select instr()
15. select to\_char(next\_day(last\_day( hiredate ) - interval '7' day,'friday'),'fmddspth "of" month yyyy') as payday from staff\_masters;
16. select max(staff\_sal) as maximum,min(staff\_sal) minimum,sum(staff\_sal) total,avg(staff\_sal) average from staff\_masters;
17. select max(staff\_masters.staff\_sal) maximuim,min(staff\_masters.staff\_sal) as minimum, sum(staff\_masters.staff\_sal) as total, avg(staff\_masters.staff\_sal) as average , designation\_masters.design\_name from staff\_masters,designation\_masters where (staff\_masters.design\_code=designation\_masters.design\_code) group by designation\_masters.design\_name order by total asc
18. select dt.dept\_code,dt.dept\_name,count(\*) from staff\_masters sm,department\_masters dt where dt.dept\_code=sm.dept\_code group by dt.dept\_code,dt.dept\_name;
19. select count(\*) Total\_number\_of\_Managers from staff\_masters,designation\_masters where staff\_masters.design\_code=designation\_masters.design\_code and designation\_masters.design\_name='Manager';

QUESTION 3

1. select department\_masters.dept\_code,department\_masters.dept\_name,staff\_masters.staff\_name from department\_masters join staff\_masters on department\_masters.dept\_code= staff\_masters.dept\_code

where staff\_masters.staff\_sal>20000;

1. select department\_masters.dept\_code,department\_masters.dept\_name,staff\_masters.staff\_name from department\_masters join staff\_masters on department\_masters.dept\_code= staff\_masters.dept\_code where department\_masters.dept\_code!=10 and department\_masters.dept\_name=any(select dept\_name from department\_masters where substr(dept\_name,1,1)='a' );
2. select staff\_masters.staff\_name as staff, staff\_masters.staff\_code as staff#, department\_masters.dept\_name as dept, staff\_masters.mgr\_code as mgr# from department\_masters join staff\_masters on department\_masters.dept\_code= staff\_masters.dept\_code;
3. SELECT Student\_Masters.Student\_Code,Student\_Masters.Student\_name, Student\_Masters.Dept\_Code,Student\_Marks.Subject1,Student\_Marks.Subject2,Student\_Marks.Subject3 FROM Student\_Masters INNER JOIN Student\_Marks ON student\_Masters.Student\_Code=Student\_Marks.Student\_Code WHERE student\_Marks.Subject1 >60 AND Student\_Marks.Subject2>60 AND student\_Marks.Subject3>60 AND Student\_Masters.Dept\_Code IN(10,20);
4. select book\_transactions.book\_code,student\_masters.student\_code,student\_masters.student\_name from student\_masters join book\_transactions on book\_transactions.student\_code=student\_masters.student\_code where book\_transactions.book\_expected\_return\_date=09-feb-2011;
5. ---
6. select department\_masters.dept\_code,department\_masters.dept\_name, staff\_masters.staff\_name,staff\_masters.design\_code from department\_masters join staff\_masters on department\_masters.dept\_code= staff\_masters.dept\_code where department\_masters.dept\_name!='hod';
7. select student\_masters.student\_code,student\_masters.student\_name,department\_masters.dept\_code,department\_masters.dept\_name, student\_marks.subject1+student\_marks.subject2+student\_marks.subject3 as total\_marks from student\_masters,department\_masters,student\_marks where student\_masters.student\_code=student\_marks.student\_code and department\_masters.dept\_code=student\_masters.dept\_code order by department\_masters.dept\_name,student\_marks.subject1+student\_marks.subject2+student\_m arks.subject3;
8. ---
9. select staff\_code,staff\_name,staff\_sal from staff\_masters where staff\_sal<=(select avg(staff\_sal) from staff\_masters);
10. select staff\_masters.staff\_code,staff\_masters.staff\_name,staff\_masters.design\_code,designation\_masters.design\_name from staff\_masters,designation\_masters where staff\_masters.design\_code=designation\_masters.design\_code;
11. select book\_code,book\_name,book\_pub\_year,book\_pub\_author from book\_masters where count(book\_pub\_author)>1;
12. ----
13. select student\_masters.student\_code,student\_masters.student\_name, student\_marks.subject1,student\_marks.subject2,student\_marks.subject3, student\_marks.subject1+student\_marks.subject2+student\_marks.subject3 as total\_marks from student\_masters,student\_marks where student\_masters.student\_code=student\_marks.student\_code and rownum<=10; order by student\_marks.subject1+student\_marks.subject2+student\_marks.subject3 desc;
14. select staff\_code,staff\_name,staff\_sal from staff\_masters where staff\_sal<=(select avg(staff\_sal) from staff\_masters);
15. select staff\_masters.staff\_name, department\_masters.dept\_name from staff\_masters join department\_masters on department\_masters.dept\_code=staff\_masters.dept\_code where department\_masters.dept\_code<>staff\_masters.dept\_code;
16. select student\_masters.student\_code,student\_masters.student\_name, student\_marks.subject1,student\_marks.subject2,student\_marks.subject3 from student\_masters join student\_marks on student\_masters.student\_code=student\_marks.student\_code where rownum<=1; order by student\_marks.subject1,student\_marks.subject2,student\_marks.subject3 desc;
17. select student\_masters.student\_code,student\_masters.student\_name,department\_masters.dept\_code from student\_masters,department\_masters where department\_masters.dept\_code=student\_masters.dept\_code group by department\_masters.dept\_code having max(department\_masters.dept\_code);
18. select department\_masters.dept\_code,staff\_masters.staff\_name from department\_masters,staff\_masters group by department\_masters.dept\_code having max(department\_masters.dept\_code);

QUESTION 4

1. create table customer (customerid number(5),customername number(10),address1 varchar2(30),address varchar2(30));

2. alter table customer modify customername varchar2(30) NOT NULL;

3. alter table customer add(gender varchar2(1),age number(3),phoneno number(10));

4. insert into customer values(1000,'Allen','#115 Chicago','#115 Chicago','M',25,7878776); insert into customer values(1001,'George','#116 France','#116 France','M',25,434524); insert into customer values(1002,'Becker','#115 New York','#114 New York','M',45,431525);

5. alter table customer MODIFY customerid number(5) constraint custid\_prim PRIMARY KEY;

6. insert into customer values(1002,'John','#114 Chicago','#114 Chicago','M',45,439525); //Error SHOWN Unique constraint violated

7. alter table customer disable constraint custid\_prim; insert into customer values(1002,'Becker','#115 New York','#114 New York','M',45,431525); insert into customer values(1003,'Nanapatekar','#115 India','#115 India','M',45,431525);

8. alter table enable constraint custid\_prim;

9. alter table customer drop constraint custid\_prim;

10. truncate table customer;

11. alter table customer add e\_mail varchar2(20);

12. alter table customer drop column e\_mail;

13. alter table customer add emailid varchar2(20);

14. alter table customer set UNUSED column emailid;

15. alter table customer drop UNUSED columns;

16. COMMENT ON TABLE customer IS 'Customer Comments';

17. select \* from user\_tab\_comments;

18. COMMENT ON COLUMN phoneno IS 'personal conatact no';

19. select \* from user\_col\_comments;

20. create table supplier as select customerid as suppid,customername as sname,address1 as addr1,address2 as addr2,phoneno as contactno from customer;

21. create table customermaster (customerid number(5) constraint custid\_pk PRIMARY KEY, customername varchar2(30) NOT NULL, address1 varchar2(1), age number(3), phonrno number(10));

22. create table accountsmaster(customerid nymber(5),accountnumber number(10,2) constraint acc\_pk PRIMARY KEY,accounttype char(3),ledgerbalance number(10,2) NOT NULL);

23. alter table accountsmaster add constraint cust\_acc FOREIGN KEY(customerid) REFERENCES customermaster(customerid);

24. insert into customermaster values(1000,'Allen','#115 Chicago','#115 Chicago',25,7878776,'M');

25. alter table accountsmaster modify accounttype char(3) constraint chk CHECK(accounttype='NRI' or accounttype='IND');

26. Insert into accountsmaster(1000,12345,'IND',25631);

27. alter table accountsmaster modify ledgerbalance number(10,2) constraint balance\_check CHECK(ledgerbalance>5000);

28. alter table accountsmaster modify constraint fk FOREIGN KEY(customerid) REFERENCES customermaster(customerid);

29. create table accountdetails as select \* from accountsmaster;

30. alter table accountdetails rename to backuptable;

31. create view acc\_view as select a.customerid as customercode,c.customername as accountholdername,a.accountnumber as "account-number",a.accounttype as type,a.ledgerbalance as balance from accountsmaster a,customermaster c;

32. create view vaccs\_dtls as select \* from accountsmaster where accounttype = 'IND' and ledgerbalance< 3;

33. create view accsvw10 as select \* from accountsmaster with read only;

34. select dept\_name,d.dept\_code from department\_masters d, (select dept\_code from staff\_masters where staff\_sal = (select MAX(staff\_sal) from staff\_masters))s where d.dept\_code = s.dept\_code;

35. select dept\_code from (select a.\*, row\_number() over (PARTITION by dept\_code order by staff\_sal desc) as num from staff\_masters a) where num < 3;

36. create sequence seq\_dept MINVALUE 40 START WITH 40 INCREMENT BY 10 MAXVALUE 200;

37. create table dept\_masters(deptno number(10),Dname varchar2(25)); insert into dept\_masters values(seq\_dept.NEXTVAL,'MARKETING'); insert into dept\_masters values(seq\_dept.NEXTVAL,'Mechanics'); insert into dept\_masters values(seq\_dept.NEXTVAL,'Robot');

38. alter sequence seq\_dept increment by 5;

39. drop sequence seq\_dept;

40. create index no\_name on dept\_masters(deptno,dname);

41. select \* from dept\_masters;

42. create synonym synemp for dept\_masters;

43. select \* from synemp;

QUESTION 5

1. create table emp\_pallav ( empno number(4) not null, ename varchar2(10), job varchar2(50), mgr number(4), hiredate date, sal number(7,2), comm number(7,2), deptno number(2));
2. insert into emp\_pallav values(1001,'pallav','manager',5001, to\_date('01-03-1998','dd-mm-yyyy'),50000,409,10); insert into emp\_pallav values(1002,'aayush','programmer',5009, to\_date('01-03-2009','dd-mm-yyyy'),80000,4067,20); insert into emp\_pallav values(1003,'saksham','analyst',5006, to\_date('01-03-2001','dd-mm-yyyy'),90000,4099,60); insert into emp\_pallav values(1004,'iclu','model',5004, to\_date('01-03-1992','dd-mm-yyyy'),30000,909,40); insert into emp\_pallav values(1005,'simran','assistanbt',5003, to\_date('01-03-2019','dd-mm-yyyy'),20000,5609,80);
3. update emp\_pallav set job='7698', deptno='7788' where name='iclu';
4. delete from emp\_pallav where deptno=40;
5. update emp\_pallav set deptno=77, empno=784 where ename='pallav';
6. insert into emp\_pallav values(1000,'allen','clerk', 1001,to\_date('12-jan-01','dd-mon-yy'), 3000, 2,10); insert into emp\_aastha values(1001,'george', 'analyst', null, to\_date('08 sep 92','dd mon yy'), 5000,0, 10); insert into emp\_aastha values(1002,'becker','manager', 1000, to\_date('04 nov 92',dd mon yy'), 2800,4, 20); insert into emp\_aastha values(1003,'bill', 'clerk', 1002, to\_date('04 nov 92','dd mon yy'),3000, 0, 20);

QUESTION 6

1. insert into customer values(&customerid,'&customername','&address1','&address2','&gender',&age,&phoneno,&salary);

Enter value for customerid: 6000

Enter value for customername: john

Enter value for address1: #115 chicago

Enter value for address2: #115 chicago

Enter value for gender: M

Enter value for age: 25

Enter value for phoneno: 7878776

Enter value for salary: 10000

Enter value for customerid: 6001

Enter value for customername: jack

Enter value for address1: #116 france

Enter value for address2: #116 france

Enter value for gender: m

Enter value for age: 25

Enter value for phoneno: 434524

Enter value for salary: 20000

Enter value for customerid: 6002

Enter value for customername: james

Enter value for address1: #114 new york

Enter value for address2: #114 new york

Enter value for gender: m

Enter value for age: 45

Enter value for phoneno: 431525

Enter value for salary: 15000.50

2. savepoint sp1;

3. insert into customer values(&customerid,'&customername','&address1','&address2','&gender',&age,&phoneno,&salary);

Enter value for customerid: 6003

Enter value for customername: john

Enter value for address1: #114 chicago

Enter value for address2: #114 chicago

Enter value for gender: m

Enter value for age: 45

Enter value for phoneno: 439525

Enter value for salary: 19000.60

4. rollback to sp1;

Rollback complete.

5. select \* from customer;