-----DQL 1 SELECT STAFF_NAME AS "NAME OF THE STAFF", DESIGN_CODE AS "DESIGNATION CODE" FROM staff master WHERE (HIREDATE <'01-JAN-2003') AND STAFF SAL BETWEEN 12000 AND 25000; 2 SELECT STAFF CODE, STAFF NAME, DEPT CODE FROM STAFF MASTER WHERE (MONTHS BETWEEN(SYSDATE, HIREDATE))>=216 ORDER BY HIREDATE DESC; 3 SELECT * FROM STAFF MASTER WHERE MGR CODE IS NULL; 4 SELECT * FROM BOOK_MASTER WHERE BOOK_PUB_YEAR BETWEEN 2001 AND 2004 OR BOOK NAME LIKE '%[&]%'; 5 SELECT STAFF NAME FROM staff master WHERE staff name LIKE '% %'; --SINGLE ROW 1 SELECT STAFF_NAME, '\$'||STAFF_SAL AS STAFF_SALARY FROM STAFF_MASTER; 2 SELECT STUDENT_NAME, TO CHAR (STUDENT_DOB, 'MONTH DD YYYY') AS STUDENT_DOB FROM STUDENT MASTER WHERE TO CHAR(STUDENT DOB,'DAY') LIKE ('%SATURDAY5') OR TO CHAR(STUDENT DOB, 'DAY') LIKE ('%SUNDAY5'); 3 SELECT STAFF NAME, ROUND (MONTHS BETWEEN (SYSDATE, HIREDATE)) AS MONTHS WORKED FROM STAFF MASTER; 4 SELECT * FROM STAFF_MASTER WHERE TO_CHAR(HIREDATE,'DD') BETWEEN 1 AND 15 AND TO_CHAR(HIREDATE, 'MONTH') LIKE '%DECEMBER%'; 5 SELECT STAFF_NAME, STAFF_SAL CASE WHEN STAFF_SAL >=50000 THEN 'A' WHEN STAFF_SAL >25000 AND STAFF SAL<50000 THEN 'B' WHEN STAFF SAL >10000 AND STAFF SAL<25000 THEN 'C' ELSE 'D' END CASE FROM STAFF MASTER; 6 SELECT STAFF_NAME,TO_CHAR(HIREDATE,'DD MONTH YYYY') AS HIRE_DATE,TO_CHAR(HIREDATE,'DAY')AS DAY FROM STAFF_MASTER ORDER BY TO CHAR(HIREDATE, 'DAY') DESC; 7 SELECT INSTR('Mississippi','i',2,3) FROM DUAL; 8 SELECT TO CHAR(NEXT DAY(SYSDATE, TUESDAY'), 'DD MONTH, YYYY') AS DAY FROM DUAL WHERE NEXT DAY(SYSDATE, 'TUESDAY') < LAST DAY(SYSDATE); 9 SELECT Student Code, Student-name, Dept Code DECODE(Dept Code, 10, 'Electricals', 20, 'Electronics', 'Others') FROM Student_Master; -----GROUP FUNCTIONS 1 SELECT ROUND(max(Staff sal)) AS Maximum, ROUND(Min(Staff Sal)) AS Minimum, ROUND(Avg(Staff sal)) AS Average FROM Staff master: 2 SELECT Deptno, COUNT (deptno) AS Total Number of Managers FROM EMP WHERE JOB IN('MANAGER') GROUP BY Deptno, job; 3 SELECT Deptno, sum(sal) FROM EMP WHERE JOB NOT IN('MANAGER') GROUP BY Deptno --HAVING sum(sal) > 20000-- ORDER BY DeptNo; ----JOINS 1 SELECT S.STAFF_NAME, D.DEPT_CODE, D.DEPT_NAME, S.STAFF SAL FROM STAFFMASTER S, DEPARTMENT MASTER D WHERE S.DEPT CODE=D.DEPT CODE AND STAFF SAL >20000: 2 SELECT S.STAFF CODE AS STAFF#, S.STAFF_NAME AS STAFF, D.DEPT NAME, S.MGR CODE AS MGR# FROM STAFFMASTER S, DEPARTMENT_MASTER D WHERE S.DEPT_CODE; 3 SELECT S.STUDENT_CODE,S.STUDENT_NAME,B.BOOK_CODE,BB.BOOK_NAME FROM STUDENTMASTER S,BOOK_TRANSACTIONS B, BOOK_MASTER BB WHERE S.STUDENT_CODE=B.STUDENT_CODE AND TO_CHAR(B.BOOK_EXPECTED_RETURN_DATE,'DD MM YYYY') LIKE TO CHAR(SYSDATE, 'DD MM YYYY');

```
4 SELECT
S.STAFF CODE, S.STAFF NAME, D.DEPT NAME, F.DESIGN NAME, G.BOOK NAME, H.BOOK ISSUE DATE
FROM STAFFMASTER S, DEPARTMENT MASTER D, DESIGNATION-MASTER F, BOOK MASTER
F,BOOK ISSUE DATE H WHERE
MONTHS BETWEEN(TO CHAR(H.BOOK ISSUE DATE, 'MM'), TO CHAR(SYSDATE, 'MM')) < 1;
6 SELECT Staff_Code, Staff_Name, STAFF_SAL_FROM STAFFMASTER WHERE STAFF_SAL<(SELECT
AVG(STAFF SAL) FROM STAFFMASTER);
7 SELECT AUTHOR, BOOK NAME FROM BOOK MASTER GROUP BY AUTHORNAME HAVING
COUNT(AUTHOR)>1;
8 SELECT S.Staff_Code, D.Staff_Name, D.DEPT_NAME FROM STAFFMASTER S, BOOK_TRANSACTIONS D
GROUP BY S.STAFF NAME HAVING COUNT(D.STAFF NAME)>1;
9 SELECT S.STUDENT CODE, S.STUDENT NAME, D.DEPT NAME FROM STAFFMASTER
S,DEPARTMENT MASTER D GROUP BY S.DEPT CODE HAVING MAX(S.DEPT CODE);
10 SELECT S.Staff Code.S.Staff Name.D.DEPT NAME.F.DESIGN NAME FROM STAFFMASTER S.
DEPARTMENT MASTER D.DESIGNATION MASTER F WHERE
MONTHS BETWEEN(TO CHAR(HIREDATE, 'MM'), TO CHAR(SYSDATE, 'MM'))<3;
13 SELECT DEPT CODE, DEPT NAME, COUNT (S. STAFF NAME) AS NUMBEROFPEOPLE FROM
STAFFMASTER S, DEPARTMENT MASTER D GROUP BY DEPT CODE;
-----DATABASE OBJECT
1 create table customer
     customerid number(5),
     cust name varchar2(20).
     Address1 varchar2(30).
     Address2 varchar2(30)
2 Alter table customer rename column cust_name to customername;
 Alter table customer modify customername varchar2(30) Not Null:
3 a Alter table customer add Gender varchar2(1);
Alter table customer add Age Number(3):
Alter table customer add phoneNo(10);
b Rename customer to cust table;
4 insert into cust table(&Customerid,'&cust Name','&Address1','&Address2','&Gender',&Age,&phoneNo);
5 Alter table cust table add constraints Custid prim PRIMARY KEY (customerid);
7 Alter table cust_table drop PRIMARY KEY custid_prim;
8 Alter table cust table add constraints Custid prim PRIMARY KEY (customerid);
9 Alter table cust table drop PRIMARY KEY custid prim:
Insert into cust table(1002, Becker, #114 New York, #114 New york, M, 45,431525, 15000.50);
Insert into cust table(1003, Nanapatekar, #115 India, #115 India, M, 45, 431525,20000.50);
10 TRUNCATE table cust_table;
11 Alter table add e mail varchar2(30);
12 Alter table cust table DROP e mail;
13 create table Suppliers as select(customerid as suppid,customername as sname,adddress1 as
addr1.address2 as addr2.phoneno as contactno) from cust table:
14 Drop table Suppliers;
create table customermaster(customerid(10) primary key(custid pk),customername varchar2(30),Address1
varchar2(30),Address2 varchar2(30),Gender varchar2(1),Age number(3),phoneno number(10));
15 Create table Accountmaster(customerid number(5), Accountnumber number(10) primary
```

key(acno),accounttype char(3),ledgerbalance number(10) Not Null);

MINVALUE 101 MAXVALUE 10000

Create sequence seq ano

START WITH 101

```
INCREMENT BY 1
            CACHE 101;
16 Alter table Accountmaster ADD constraint ass fk FOREIGN KEY(customerid) REFERENCES
customermaster(customerid);
17 Insert into customermaster values(1000, Allen, #115 Chicago, #115 Chicago, M, 25, 7878776);
Insert into customermaster values(1001, George, #116 France, #116 France, M, 25, 4345240);
Insert into customermaster values(1002, Becker, #114 New York, #114 New York, M, 45, 4315250);
18 alter table Accountmaster add constraint ck ac check(accountype='NRI' or accountype='IND');
19 alter table Accountmaster add constraint Balance check(ledger balance > 5000);
20 Delete from Accountmaster, customertable where customerid = 1001;
21 Create table accountdetails as select * from Accountmaster;
22 CREATE VIEW Acc view AS
SELECT(Customerid, Customername, Accountnumber, AccountType, ledgerBalance)
      from AccountMaster:
23 CREATE VIEW vAccs Dtls AS SELECT Accounttype, ledgerbalance from Accountmaster where
accounttype = 'IND' and ledgerbalance < 10000;
24 create view accsvw10 AS SELECT * FROM Employee with READ ONLY;
REVOKE INSERT, UPDATE, DELETE ON accsvw10 from user1;
insert into accsvw10(eid,ename,sal,job) values('SQL*PLUS','user1','INSERT','DISABLED')
25 CREATE sequence SEQ DEPT minvalue 40 start with 40
      increment by 10 MAX VALUE 200 cache 40;
26 create table departmentmaster(deptno number(50), Dname varchar2(25), location varchar2(25));
insert into departmentmaster values(seq dept.NEXTVAL,'MARKETING','NEW DELHI');
insert into departmentmaster values(seq_dept.NEXTVAL,'SALES','chennai');
insert into departmentmaster values(seg dept.NEXTVAL,'RESEARCH','BOSTON');
27 DROP sequence seq dept;
28 CREATE INDEX no name on emp(empno);
select * from emp;
29 create SYNONYM synemp for emp;
30 select * from synemp;
31 CREATE INDEX IDX EMP HIREDATE on emp(HIREDATE);
32 CREATE sequence SEQ EMP minvalue 1001 start with 1001
      increment by 1 cache 1001;
1 Create table employee as select * from emp where 1=3;
desc employee;
select * from employee
2 select * from employee;
```

3 update table employee set job=(select job from employee where empno=7788),deptno=(select deptno from

employee where empno=7788) where empno=7698:

- 4 delete from employee where departmentname like '%sales%';
- 5 update table employee set deptno=(select deptno from employee where deptno=7788) where deptno=7698;

6 insert into emp (empno, 'ename', 'job', mgr, 'hiredate', sal, comm, deptno) values (1000, Allen, Clerk, 1001, 12-jan-01, 3000, 2,10);

insert into emp (empno, 'ename', 'job', mgr, 'hiredate', sal, comm, deptno) values (1001, George, analyst, null, 08 Sep 92, 5000, 0, 10);

insert into emp (empno, 'ename', 'job', mgr, 'hiredate', sal, comm, deptno) values (1002, Becker, Manager, 1000, 4 Nov 92, 2800, 4, 20);

insert into emp (empno, 'ename', 'job', mgr, 'hiredate', sal, comm, deptno) values (1003, 'Bill', Clerk, 1002, 4 Nov 92,3000, 0, 20);

----TRANSACTION

1 insert into customermaster (customerid, 'customername', 'address1', 'address2', 'gender', age, 'phoneno) values (6000, John, #115 Chicago, #115 Chicago, M, 25, 7878776, 10000);

insert into customermaster (customerid, 'customername', 'address1', 'address2', 'gender', age, 'phoneno) values (6001, Jack, #116 France, #116 France, M, 25, 434524, 20000);

insert into customermaster (customerid,'customername','address1','address2','gender',age,'phoneno) values (6002, James, #114 New York, #114 New York, M, 45, 431525, 15000.50); 2 insert into customermaster (customerid,'customername','address1','address2','gender',age,'phoneno) values (6000, John, #115 Chicago, #115 Chicago, M, 25, 7878776, 10000);

insert into customermaster (customerid, 'customername', 'address1', 'address2', 'gender', age, 'phoneno) values (6001, Jack, #116 France, #116 France, M, 25, 434524, 20000);

insert into customermaster (customerid, 'customername', 'address1', 'address2', 'gender', age, 'phoneno) values (6002, James, #114 New York, #114 New York, M, 45, 431525, 15000.50);

savepoint p1;

3 insert into customermaster (customerid, 'customername', 'address1', 'address2', 'gender', age, 'phoneno) values (6003, John, #114 Chicago, #114 Chicago, M, 45, 439525, 19000.60);

4 rollback p1;