1. Consider the following table:

Table : BOOKS

Book_Id	Book_Name	Author_Name	Publishers	Price	Type	Qty
C0001	Fast Cook	Lata Kapoor	EPB	355	Cookery	5
F0001	The Tears	William Hopkins	First Publ.	650	Fiction	20
T0001	My First C++	Brian & Brooke	EPB	350	Text	10
T0002	C++ Brainworks	A.W.Rossaine	TDH	350	Text	15
F0002	Thunderbolts	Anna Roberts	First Publ.	750	Fiction	50

Table : ISSUED

Book_Id	Quantity_Issued
T0001	4
C0001	5
F0001	2

Write SQL queries for the following:

i) To display book id, name, price and quantity issued for the books of type as Text.

ii) To insert a new row in the table ISSUED having the following data : “F0003”, 1

iii) To increase the price of all books of EPB publishers by 50.

Give the output of the following:

iv) SELECT Book_Id, MAX(Price) FROM BOOKS WHERE Qty>=20;

v) SELECT COUNT(DISTINCT Publishers) FROM BOOKS WHERE Price>=400;

2. Consider the following DEPT and WORKER tables. Write SQL queries for (i) to (iv) find the output for (v) to (viii):

Table : DEPT

DCODE	DEPARTMENT	CITY
D01	MEDIA	DELHI
D02	MARKETING	DELHI
D03	INFRASTRUCTURE	MUMBAI
D05	FINANCE	KOLKATA
D04	HUMAN RESOURCE	MUMBAI

Table : WORKER

WNO	NAME	DOJ	DOB	GENDER	DCODE
1001	George K	2013-09-02	1991-09-01	MALE	D01
1002	Ryma Sen	2012-12-11	1990-12-15	FEMALE	D03
1003	Mohitesh	2013-02-03	1987-09-04	MALE	D05
1007	Anil Jha	2014-01-17	1984-10-19	MALE	D04
1004	Manila Sahai	2012-12-09	1986-11-14	FEMALE	D01
1005	R Sahay	2013-11-18	1987-03-31	MALE	D02
1006	Jaya priya	2014-06-09	1985-06-23	FEMALE	D05

i) To display wno,name,gender from the table worker in descending order of wno.
ii) To display the name of all the female workers from the table worker.
iii) To display the wno and name of those worker from the table worker who are born between '1987-01-01' and '1991-12-01'
iv) To count and display male workers who have joined after '1986-01-01'
v) SELECT COUNT(*), DCODE FROM WORKER GROUP BY DCODE HAVING COUNT(*)>1;
vi) SELECT DISTINCT DEPARTMENT FROM DEPT;

vii) SELECT NAME, DEPARTMENT,CITY FROM WORKER W, DEPT D WHERE W.DCODE=D.DCODE AND WNO<1003;
viii) SELECT MAX(DOJ), MIN(DOB) FROM WORKER;

3. **Consider the following tables and answer the following questions**
   Table: EMPLOYEE

EMPLOYEEID	NAME	SALES	JOBID
E1	SUMIT SIMHA	1100000	102
E2	VIJAY SINGH TOMAR	1300000	111
E3	AJAY RAJPAL	1400000	103
E4	MOHIT RAMNANI	1250000	102
E5	SHAILJA SINGH	1450000	103

Table : JOB

JOBID	JOBTITLE	SALARY
101	PRESIDENT	200000
102	VICE PRESIDENT	125000
103	ADMINISTRATION ASST.	80000
104	ACCOUNTING MANAGER	70000
105	ACCOUNTANT	65000
106	SALES MANAGER	80000

i) To display employee ids, names of employees, job ids with corresponding job titles.
ii) To display names of employees, sales and corresponding job titles who have achieved sales more than 1300000.
iii) To display names and corresponding job titles of those employees who have 'SINGH'(any where) in there names.
iv) write SQL commands to change the JOBID to 104 of the EMPLOYEE with ID as E4 in the table EMPLOYEE.

4. **Consider the following table and answer the following questions.**
   Table : EMPLOYEE

EID	NAME	DEPID	QUALIFICATION	SEX
1	Deepali gupta	101	MCA	F
2	Rajat tyagi	101	BCA	M
3	Hari mohan	102	BA	M
4	harry	102	MA	M
5	Sumit mittal	103	B.Tech	M
6	jyoti	101	M.Tech	F

Table : SALARY

EID	BASIC	DA	HRA	BONUS
1	6000	2000	2300	200
2	2000	300	300	30
3	1000	300	300	40
4	1500	390	490	30
5	8000	900	900	80
6	10000	300	490	89

i)To display the frequency of employees department wise.
ii) To list the names of those employees only whose name starts with 'H'.
iii) To add a new column in the SALARY table. The column name is TOTAL_SAL.
iv) To store the corresponding values in the TOTAL_SAL column.(BASIC+DA+HRA+BONUS)
<u>write output for the following:</u>
v) SELECT MAX(BASIC) FROM SALARY WHERE BONUS>40;
vi) SELECT COUNT(*) FROM EMPLOYEE GROUP BY SEX;
vii) SELECT DISTINCT DEPID FROM EMPLOYEE;

5. Consider the following table and write SQL queries:

Table : Personal

Empno	Name	DOB	Native-place	Hobby
123	Amit	23-jan-1965	Delhi	Music
127	Manoj	12-dec-1976	Mumbai	Writing
124	Abhai	11-aug-1975	Allahabad	Music
125	Vinod	04-apr-1977	Delhi	Sports
128	Abhay	10-mar-1974	Mumbai	Gardening
129	Ramesh	28-oct-1981	Pune	Sports

Table : Job

Sno	Area	App_date	Salary	Retd_date	Dept
123	Agra	25-jan-2006	5000	25-jan-2026	Marketing
127	Mathura	22-dec-2006	6000	22-dec-2026	Finance
124	Agra	19-aug-2007	5500	19-aug-2027	Marketing
125	Delhi	14-apr-2004	8500	14-apr-2018	Sales
128	Pune	13-mar-2008	7500	13-mar-2028	Sales

a) **Show empno, name and salary of those who have sports as a hobby.**
b) **Show name of the elders employee.**
c) **Show no employee area wise.**
d) **Show the youngest employees from each native place.**
e) **Show sno,name,hobby and salary in descending order of salary.**
f) **Show the hobbies of those whose name is pronounced as ‘Abhay’.**
g) **Show the appointment date and native place of those whose name starts with ‘A’ or ends in ‘d’.**
h) **Show the salary expense with suitable column heading as those who shall retire after 20-jan-2006.**
i) **Show the hobby of which there are 2 or more employees.**

j) Show how many employees shall retire today if the maximum length of service is 20 years.

k) Show those employee names and date of birth who have served more than 17 years as on date.

l) Show names of those who earn more than all of the employees of the Sales department.

m) Increase the salary of the employees by 5% of their present salary with a hobby as Music or they complete at least 3 years of service.

n) Write the output of the following:

i) SELECT DISTINCT Hobby FROM Personal;

ii) SELECT AVG(Salary) FROM Personal P, Job J where P.Empno=J.Sno AND Area IN ('Agra', 'Delhi');

iii) SELECT COUNT(DISTINCT Native_place) FROM Personal;

iv) SELECT Name,MAX(Salary) FROM Personal P,Job J WHERE P.Empno=J.Sno;

o) Add a new tuple in the table Personal of your own with Hobby as Music.

p) Insert a new column Email in the Job table.

q) Erase the records of employees of the Job table whose Hobby is not Sports.

r) Remove the table Personal.