INDIAN SCHOOL MUSCAT
CLASS XI
(2019-2020)
COMPUTER SCIENCE (Code 083)
WS 9 – Data Management
Attempt the following questions in the class work note book:

1.	What is a database system? What is its need?
2.	What is SQL? What are different categories of commands available in SQL?
3.	Differentiate between DDL and DML commands.
4.	Write two usage of DESC in SQL.
5.	Write SQL queries for (i) to (iv) and find outputs for SQL queries (v) to (viii), which are based on the tables:

TABLE :BOOK

CODE	BNAME	TYPE
F101	The priest	Fiction
L102	German easy	Literature
C101	Tarzan in the lost world	Comic
F102	Untold Story	Fiction
C102	War Heroes	Comic

TABLE: MEMBER

MNO	MNAME	CODE	ISSUEDATE
M101	RAGHAV SINHA	L102	2016-10-13
M103	SARTHAK JOHN	F102	2017-02-23
M102	ANISHA KHAN	C101	2016-06-12

(i) To display all details from table MEMBER in descending order of ISSUEDATE.

(ii) To display the CODE and BNAME of all Fiction Type books from the table BOOK.

(iii) To display the TYPE and number of books in each TYPE from the table BOOK.

(iv) To display all MNAME and ISSUEDATE of those members from table MEMBER who have books issued (i.e ISSUEDATE) in the year 2017.

(v) SELECT MAX(ISSUEDATE) FROM MEMBER;

(vi) SELECT DISTINCT TYPE FROM BOOK;

(vii) SELECT A.CODE, BNAME, MNO, MNAME FROM BOOK A, MEMBER B WHERE A.CODE=B.CODE ;

(viii) SELECT BNAME FROM BOOK WHERE TYPE NOT IN ("Fiction", "Comic");

6.	Create table Employee with the following structure:

Name of the column	ID	FIRST_NAME	LAST_NAME	USER_ID	SALARY
TYPE	NUMBER(4)	VARCHAR(30)	VARCHAR(30)	VARCHAR(10)	NUMBER(9,2)

Ensure the following specification in created table: ID should be declared as Primary Key, User_ID shold be unique,Salary Must be greater than 5000 , First_Name and Lst_Name must not remain Blank

Write SQL queries for the following :

   i.   Show the structure of the table Employee.

   ii.   Insert 3 records in the table Employee.

   iii.   Modify the SALARY and increase by 1000, for all who get salary less than 6000

   iv.   For record with ID 4 update record with LAST_NAME as Sharma, USER_ID as E1004 and SALARY as 7800.

   v.   Add a new coloumn PHONE of type varcahr(12)

   vi.   Delete the EMPLOYEE record having FIRST_NAME as Manish

   vii. Remove Employee Table permanently

   viii. Count the total records in the table EMPLOYEE

7.	What is foreign key? How do you define a foreign key in your table?
8.	Explain the DELETE command in SQL with syntax and example.

9. Observe the following table and answer the parts (i) and (ii) :

Table : Store

ItemCode	Item	Qty	Rate
10	Gel Pen Classic	1150	25
11	Sharpener	1500	10
12	Ball Pen 0.5	1600	12
13	Eraser	1600	5
15	Ball Pen 0.25	800	20

(i) In the above table, can we have Qty as primary key.[Answer as yes/no]. Justify your answer.

(ii) If you have to add a column email and phone, name the data types required for it.

10. Define Cardinality and degree of table what is the Degree and Cardinality of the following table..

TABLE: CANDIDATE

NO	NAME	STREAM
C1	AJAY	LAW
C2	ADITI	MEDICAL
C3	ROHAN	EDUCATION
C4	RISHAB	ENGINEERING