INDIAN SCHOOL DARSAIT
DEPARTMENT OF ICT

Subject: Computer Science **Topic:** SQL(ORDER BY, ALTER TABLE, UPDATE,DELETE FROM,AGGREGATE FUNCTIONS,DROP TABLE) **Lab Worksheet No.:**2

Resource Person: Sethu Parvathi C **Date:**_____

Name of the Student :_____ **Class &Div:** XI A **Roll Number :**___

1. Create the following table, insert records and perform the queries:

Field Name	Datatype
Sid	integer
Sname	char(30)
Mark1	decimal
Mark2	decimal

Table :Student

Sid	Sname	Mark1	Mark2
001	Ram	20	21
002	Raj	24	22
003	Sara	20	27
004	Sujit	28	24
005	Ahana	22	27

a) Display Sid and Sname from the student table in the alphabetical order of their names.
b) Display details of students in the descending order of their marks.
c) To remove tuples from student table whose name begins with ‘A’.
d) To remove records from student table whose mark2 is less than mark1
e) Add a new column ‘mobileno’ to student table
f) Add a new column ‘imarks’ whose default value should be 10 in the student table.
g) To change the existing column ‘mark2’ to be the third column in the student table.
h) To change the column ‘mobileno’ to be the first column in the student table.
i) To change the existing column ‘Sname’ to ‘StudentName’ in the student table.
j) Drop the column ‘mobileno’ from the student table.
k) Drop the table ‘Students123’ if it exists in the database.
l) Add a primary key constraint to the table student using the Sid column.
m) To add a column ‘total’ in the student table.
n) To update the added column ‘total’ as mark1+mark2.
o) To count the total number of students in the student table.
p) To find the student id and student name of student with the lowest marks.
q) To find the student id and student name of student with the highest marks.
r) To find the average of total marks obtained by the students in the class.

2. Create the following table ‘Employee’, insert records and perform the queries:

Table: Employee

Empid	Name	Salary	Mcode
E11	Anya	1000.00	M21
E12	Seth	2000.00	M21
E13	Momin	7500.00	M22
E14	Bina	12000.00	M24
E15	Jatin	8000.00	M25
E31	Kuldeep	10000.00	M22

a) To add a new column ‘grade’ to the Employee table.
b) In the added column ‘grade’, assign grade as follows
    a. if salary between 1000 and 7000, grade is 1
    b. if salary between 7500 and 10000, grade is 2
    c. if salary between 11000 and 15000, grade is 3
c) Add a primary constraint p_key to the employee table using the Empid column.
d) Add a column ‘location’ to the employee table and update the entire column with city name ‘Delhi’.
e) Display the total number of employees in the table employee.
f) Display the net salary of the employees
g) Display details of the employee having minimum salary.
h) Display details of employee having maximum salary.
i) Display the minimum and maximum salary of employees.
j) Display the average salary of the employees.
k) Display the number of managers assigned for the employees in the employee table.
l) Change the record values of empid, name and mcode to ‘E16’,’Archana’,’M23’ whose salary is 10000.
m) Verify the following queries and give the corresponding output.
    a. select * from employee where salary<10000 and name like ’%i%’;
    b. select * from employee where salary=(select max(salary) from employee);
    c. select distinct(mcode) from employee;
    d. select empid, name from employee where mcode in (‘M22’,’M24’);
    e. update employee set empid=11 where name='Momin';