INDIAN SCHOOL DARSAIT
DEPARTMENT OF ICT

Subject: Informatics Practices (065)   **Topic:** SQL   **Lab Worksheet No.:** 2

Resource Person(s): Fathima P. Aliyar   **Date:** 29-05-2019

Name of the Student : _____   **Class: XI** C   **Roll Number:** ____

Create the following tables with the suitable datatypes. Insert records in the table and perform the queries that follow:

1. **Student (**RollNo, Name, Sub1, Sub2, Sub3)

Rollno	Name	Sub1	Sub2	Sub3
1	Sherin	99	70	98
2	Gayathri	67	44	78
3	Mahesh	56	33	67
4	Anil	99	98	100
5	Kripa	90	45	86

   a) Add a new column "**Total".**
   b) Update field total with the sum of Sub1, Sub2 and Sub3.
   c) Display highest marks in sub2 and lowest marks in sub3.
   d) Display the names of student in ascending order.
   e) Display the Rollno, name and average mark of every student.

2. **Employee** (Empno, Ename, Dept, Dateofjoin, Bsalary, Netsalary)

Empno	EName	Dept	Dateofjoin	Bsalary	Netsalary
E01	Keshav	English	12-12-1987	10000	1200000
E02	Amina	Science	12-01-1999	78100	780000
E03	Rajesh	Hindi	01-03-1999	9000	450000
E04	Shyam	English	16-08-1998	7000	340000
E05	Ayesha	Hindi	16-05-1998	50000	670000

   a) Find the sum of netsalary in the English department.
   b) Display the count of distinct departments.
   c) Display the minimum bsalary of Hindi department.
   d) Display the details based on the descending order of ename.
   e) Display the details of all those employees whose name starts with A.

3. **Flight** (Flightno, Fname, Destination, Distance, Fare)

Flightno	Fname	Destination	Distance	Fare
101	Jet Airways	Delhi	100	125
109	Oman Air	Cochin	150	253
107	Air India	Delhi	350	564
104	Spice Jet	Goa	200	444
108	Emirates	Mumbai	199	250

   a) Display the flight details with the destination "Mumbai".
   b) Add a new column **"tax"**
   c) Update the field **"tax"** as 15% of fare.
   d) Display the details of flight whose distance lie in the range 100-200(inclusive of both).
   e) Display the details based on the ascending order of **Fname.**

4. **Library** (BookId, Bname, Dept, Price, Qty)

BookId	Bname	Dept	Price	Qty
B01	IP	ICT	210	9
B02	CS	ICT	500	78
B05	Chemistry	Science	990	56
B07	Maths	Science	450	45
B10	Physics	Science	670	90

     a) Increase the price of all books by 80.
     b) Display the details of book where the quantity is more than 50.
     c) Add a new column **"fine"**
     d) Update the field **"fine"** as 15% of price.
     e) Display the details based on the descending order of bname.

5. **Exam** (Centerno, Noofcandidates, Cname, Subject, City)

Centerno	Noofcandidates	Cname	Subject	City
C11	189	ISM	Math	Muscat
C12	67	ISWK	Hindi	WadiKabir
C45	35	ISD	Science	Darsait
C34	17	ISS	Math	Sohar
C23	90	ISG	Science	Ghubra

     a) Display all the details of Exam in alphabetical order of Cname.
     b) Display the maximum, minimum and total number of candidates.
     c) Increase the candidate count to 101 for the center number C23.
     d) Delete the records whose subject is Hindi.
     e) Display the details of those candidate who are writing exam in Darsait, Sohar and Ghubra

6. **Product** (PID, PName, Quantity, Price, Discount)

PID	PName	Quantity	Price	Discount
P01	Mouse	15	3000	250
P02	Keyboard	20	2500	
P03	Monitor	12	5000	500
P04	CPU	18	12000	
P05	Headphone	10	1500	50

     a) Display the average of Price and Sum of Quantities in the table.
     b) Display all the records which does not have any discount.
     c) Display all the details of product in the descending order of PName.
     d) Delete the record whose PID is P03.
     e) Display all the records whose price lie in the range of 2000 and 3000.