

# INDIAN SCHOOL AL WADI AL KABIR

**Worksheet**, 2024-25

Class: XII	SUB: COMPUTER SCIENCE	Date of Completion: 10-09-2024
Required to practice these questions in lab	TOPIC: PRACTICAL QUESTIONS	Note: Programs to be written in the record book

1	Write an interactive menu driven program to implement a stack. Each node in the stack is storing the information about a Player[Player ID, Player Name, Player Country]. Your program should perform the following operations as per the user's choice <b>1.push</b> () <b>2. pop</b> () <b>3. display</b> () and 4. <b>exit</b> () (Note: take care of Stack is full or Stack is empty)
2	Write an interactive menu driven program to implement a stack. Each node in the stack is storing the information about a Seminar [Seminar ID, Seminar Topic, City, No_Participants]. Your program should perform the following operations as per the user's choice 1.push () 2. pop () 3. display () and 4. exit () (Note: take care of Stack is full or Stack is empty)
3	Create a table student in mysql with the fields – rollno, name, subject mark in the database school.  Write a menu driven program to define the following user defined functions and invoke them  1. addrec() – To input and add records into a table student in school database with record( rollno, name, subject,mark)  2. delrec(rno) - To delete the record with rollno that matches with the rollno that is accepted as parameter to the function.
4	<ul> <li>Write a menu driven program considering the table student, to define the following user defined functions and invoke them</li> <li>1. update() – To update the mark of the student with new mark whose rollno is entered by the user.</li> <li>2. display()- To display the record of students whose name is entered by the user.</li> </ul>

5 Create tables GRADUATE and NEWGR, populate the tables as shown below.

## **GRADUATE:**

SNO	NAME	STIPEND	SUBJECT	AVERAGE	DIVN
1	Karan	400	Physics	68.00	С
2	Divakar	450	Comp Sc	94.00	A
3	Divya	300	Chemistry	86.00	В
4	Sabina	500	Mathematics	84.00	В
5	John	400	Biology	88.00	В

#### **NEWGR:**

SNO	SNAME	PGSUB
1	Namita	Medical
2	Surya	Engineering

Answer the following by writing valid SQL queries, based on the tables given above:

- i) To display the names of those students who have obtained DIVISION B and sort the relation by their NAME.
- ii) To increase the STIPEND by 10% for only those whose AVERAGE is between 86 to 95
- iii) To list the names of those students whose SNO is similar in both the tables.
- iv) To show how many students are present in each DIVISION of graduate table.
- v) To find the difference between the HIGHEST AVERAGE and LOWEST AVERAGE for those who got DIVISION B.

6 Create the tables COACH and NEWCOACH, populate the table with records as given.

## **COACH:**

COACHID	CNAME	AGE	SPORTS	DOA	PAY	SEX
100	KUKREJA	35	KARATE	27/03/2015	1000	M
200	RAVINA	34	CRICKET	20/01/2017	1200	F
300	TARUN	33	BASKET BALL	01/01/2020	2000	M
400	KUSH	41	SWIMMING	13/01/2019	900	M

500	SHAILYA	37	BASKET BALL	19/02/2018	750	F
600	DAVID	32	CRICKET	13/01/2014	850	M

#### **NEWCOACH:**

COACHID	GAME	FEES
200	CRICKET	3600
300	POLO	3800

Answer the followings valid SQL commands

- i) Display the TOTAL, AVERAGE, LOWEST and HIGHEST pay of all coach.
- ii) Display only those sports where number of coaches are less than 2 in each sport.
- iii) List the COACH NAME, AGE, DOA, SEX and FEES for only those coaches whose game is cricket.
- iv) Show the details of only FEMALE coach of those whose age is below 40, sorted by their PAY.
- v) Display all those whose name starts with 'S' or 'R' in COACH relation.
- 7 Create a table ITLAB and NEWLAB populate the following **records** as given below:

#### **ITLAB**

NO	Itemname	Cost	Dop	Warranty
1	Computer	20000	11/DEC/2000	2
2	Printer	7000	11/FEB/2001	1
3	Scanner	5000	12/MAR/2001	1
4	Camera	20000	01/FEB/2001	2
5	Plotter	12000	05/JUN/2004	3
6	Hub	4000	09/OCT/2002	1

#### **NEWLAB**

NO	Suppname	Scharge
4	JP group	10000.99
5	Verma and sons	8900.33

6	Delta services	9988.44

Write SQL query for the followings to:

- (i) Display those items whose name contains 'er' or 'ra'.
- (ii) Display all the details of lab items whose COST is in the range of 10000 to 15000.
- (iii) Display only those items whose cost is more than the average cost of the table.
- (iv) Add a new column to hold the NO\_ITEMS.
- (v) Display ITEMNAME, COST and SUPPLIER NAME for only those whose NO is same in both tables.
- 8 Create table BESTORDERS and NEWORDERS, add the records as shown below.

### **BESTORDERS:**

ORDERNO	CUSTCODE	DOP	ITEM	QTY	AMOUNT
A010	C003	22-01-2018	Burger	10	100
A002	E003	24-01-2019	Pizza	5	100
A013	D001	24-02-2017	Veg roll	20	50
A004	C003	11-08-2019	Garlic bread	7	45
A005	E003	02-02-2018	Burger	20	250

#### **NEWORDERS:**

TIL WORDLING.		
ORDERNO	SUPPLIER	PRICE
A002	Milton	200.55
A013	Britannia	300.55

Write SQL statements to perform the followings:

- i) To count the number of items having Burger.
- ii) To display the SUPPLIER NAME and CUSTCODE for only those whose ORDERNO is similar.
- iii) To count number of items whose AMOUNT is more than the AVERAGE AMOUNT of the table.
- iv) Display orderno, custcode and amount of those items whose amount is in the range of 100 to 250.
- v) To remove a column amount from bestorders.