**DBMS First Practical Question**

1. Create a database db\_info.
2. Create a table tbl\_student having following structure

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sid (int) (primary key) | Name | Gender | Faculty | Email | Phone (int) | Fee double |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

1. Add new column “Recent Degree” and Specialization in tbl\_student.
2. Change the datatype of phone to varchar
3. rename the column phone to contact
4. Insert any twenty data in tbl\_student
5. Update name, gender email and phone to value of your choice for the student whose id is 4.
6. Display all the information of tbl\_student
7. Display name, gender and email of all the student
8. Display all the record of student whose faculty is bca.
9. Display distinct name of student
10. Delete record of student whose id is 2.

**DBMS Second Practical Question**

**For the above table answer the following:**

1. Increment the fee of all student by 20% of current fee and display
2. Display all the record of student whose fee is greater than 200000
3. Decrement the fee by 20000 for the student whose id is 1
4. Delete all the record of student whose fee is less than 100000
5. Display all the record of student for which faculty is BIM and fee is less than 200000
6. Display all the record of student whose faculty is bim or csit
7. Display all the record of student whose recent degree is +2 and specialization is computer science.
8. Using range operator: display all the record of student whose id is between 1 to 8
9. Using range operator: display all the record of student whose id is not between 5 to 20
10. Using list operator: display all the record of who are from Pokhara, Kathmandu or butwol.
11. Using list operator: display all the record of student whose are not from Kathmandu, Bhaktapur and Pokhara
12. Using list operator: display all the record of student whose id not in 2,5,8,10
13. Using string operator: display id and address of student for which name starts with ‘A’.
14. Using string operator: display all the record from tbl\_std for which name ends with ‘am’.
15. Using string operator: display all the record from tbl\_std for which name starts with ‘a’, ‘s’, or ‘r’
16. Display all the record of student for which name starts with any letter from a to s and ends with ‘ta’
17. Display all the record of student by sorting the name in descending order

Submission date of both practical 1 and 2 : 27th April, 2023

**Note:**

* All the code should be in handwritten form
* Output should be in printed form for each question.

**Third Practical:**

**Question from aggregate function, group by and subqueries**

1. Display the average fee for whole student
2. Display total number of record in tbl\_student
3. Display lowest fee of a student
4. Display highest fee paid by a student
5. Display sum of fee for all student
6. Display the minimum and maximum fee paid by a student of different gender
7. Display the average fee paid for all the student except for those whose recent degree is +2
8. Display the minimum and maximum fee paid by a student of different specialization
9. Display maximum fee for each gender where the fee is less than the average fee
10. Display all the record of student who have fee greater than fee of Ram
11. Display all the record of student who have fee greater than average fee of all students
12. Display all the record of student who have faculty same as that of Sam (Sagar).
13. Display name of the student who have specialization same as that of Hari.
14. Display id and name of all student whose fee is greater than fee of at least one student

**Fourth Practical**

**Question related to join operation**

**Given the relation schema as below:**

**Employee (emp\_id, name, address, telephone, salary, age)**

**Works (emp\_id, Project\_id, joinDate)**

**Project (project\_id, project\_name, city, duration, budget)**

**Write sql query for following:**

1. Create table for above relation schema
2. Insert any 10 appropriate data on each table
3. Find the name of employee with the name of project they work on
4. Find name and city of the project on which salary of employee is greater than or equal to 20000
5. Find the name of employee and project name who living in address Kathmandu
6. Display name, address, salary and age of employee whose join date is “2020-10-11”
7. Find project name, duration and budget of project on which employee between age group 20 to 30 are working
8. Display name of employee who do not work in any project

Submission date of practical 3 and 4 : 4th may 2023 (Thursday)