

DBMS Lab Assignment 3:

Database Connectivity

Gram Panchayat Management System

Convert the ER diagram drawn in the previous lab design relational tables. Create the tables in SQL. Populate the tables with some artificial data. Write SQL queries to answer the following:

- A. Show names of all citizens who holds more than 1 acre of land
- B. Show name of all girls who study in school with household income less than 1 Lakh per year
- C. How many acres of land cultivate rice
- D. Number of citizens who are born after 1.1.2000 and have educational qualification of 10th class
- E. Name of all employees of panchayat who also hold more than 1 acre land
- F. Name of the household members of Panchayat Pradhan
- G. Total number of street light assets installed in a particular locality named Phulera that are installed in 2024
- H. Number of vaccinations done in 2024 for the children of citizens whose educational qualification is class 10
- I. Total number of births of boy child in the year 2024
- J. Number of citizens who belong to the household of at least one panchayat employee.

Print the result of the above queries from C/C++/Java and python programs. Use appropriate connectivity libraries.

Submission:

A pdf file (rollnumberA3.pdf) containing the SQL program and the high level language programs and a brief writeup. Mention your name roll number in the top of the file. You should also demonstrate running of your program in the terminal in Lab.

Time: 1 week