



ASSIGNMENT NO. 4

SUBJECT: INFORMATICS PRACTICES

CLASS-XI

Oct,2025

Database concepts, Sql

Database Concepts (Theory)

1. Define a database. How is it different from a file system?
2. What is the difference between DBMS and RDBMS? Give one example of each.
3. Explain the terms: *Tuple*, *Attribute*, *Primary Key*, and *Foreign Key* with examples.
4. What is normalization? Why is it needed in databases?
5. Differentiate between *Candidate Key* and *Primary Key*. Give one example.

SQL Basics (Commands & Queries)

Consider the following table STUDENT:

RollNo	Name	Class	Marks	Age
1	Aman	XI	85	16
2	Riya	XI	92	17
3	Kabir	XI	67	16
4	Meera	XI	74	15
5	Rahul	XI	88	16

1. Write an SQL query to display the names of students who scored more than 80 marks.
2. Write an SQL query to display RollNo and Name of students whose Age is 16.
3. Write an SQL query to display details of students in descending order of marks.
4. Write an SQL query to add a record of your choice.
5. Write an SQL query to add column city to accommodate 20 characters.
6. Write an SQL query to change column name 'Name' to 'Stu_name'.
7. Write an SQL query to display the names of students whose name starts with the letter 'R'.
8. Write an SQL query to increase the marks of all students by 5.
9. Write an SQL query to change the name of student with RollNo = 3 to "Karan".
10. Write an SQL query to delete the record of student whose RollNo = 5.