



Brain International School

Vikas Puri, New Delhi

ASSIGNMENT NO. 4

SUBJECT: COMPUTER SCIENCE

CLASS-XII

OCTOBER,2025

SQL Queries on joins, group by, order by, Interface python with sql

Q1.Table: STUDENTS

RollNo Name Class Marks

1	Alice	12	90
2	Bob	11	85
3	Charlie	12	75
4	David	11	92
5	Emily	12	88

Table: SUBJECTS

SubCode SubName RollNo MarksObtained

ENG	English	1	90
ENG	English	2	80
ENG	English	3	75
SCI	Science	1	92
SCI	Science	2	85
SCI	Science	3	77

Consider the above tables and write queries to :

1. List the names and marks of all students in class 12, sorted by marks in descending order.
2. Display the total number of students in each class.
3. Show the maximum marks obtained in each subject from the SUBJECTS table.

4. List the names of students who have scored more than 85 marks in English.
5. Display the average marks of all students, grouped by class, and only show those classes where the average marks are above 80 .
6. For each subject, display the number of students who have obtained marks greater than or equal to 80 .
7. Display class-wise highest and lowest marks from the STUDENTS table using GROUP BY

Q2. List the steps involved in connecting a Python program to a MySQL database and executing an SQL query.

Q3. Write a Python program to connect to a MySQL database "School" using the mysql.connector library. The program should fetch and display all records from the table "Student" where the grade is 'A'.

Q4. Write a Python program to connect to a MySQL database "School" using the mysql.connector library. The program should take rollno, name and marks from user and insert it in a table called 'Student' of database 'School'.