

Day 4

Problem Statement:

Write a SQL query to find the maximum and minimum values of continuous 'Sequence' in each 'Group'.

Solution Code:

```
/*Using IVY internship database*/

use ivy_sql_internship;

/*Creating table Sequence*/

create table sequence(Sl_No int,Group_Name char(1),Number_Sequence int);

/*inserting values in the tables*/

insert into sequence(Sl_No,Group_Name,Number_Sequence)

values

(1,"A",1),(2,"A",2),(3,"A",3),(4,"A",5),(5,"A",6),(6,"A",8),(7,"A",9),(8,"B",11),(9,"C",1),(10,"C",2),(11,"C",3);

/*Checking the table*/

select * from sequence;

/*Write a SQL query to find the maximum and minimum values of continuous 'Sequence' in each 'Group'.*

WITH Table1 as (select Group_Name,Number_Sequence, RANK number() over(partition by Group_Name order by
Number_Sequence) as Temp from sequence),

Table2 as (select Group_Name,Number_Sequence,Temp,(Number_Sequence-Temp) as subtract from Table1)

select Group_Name,min(Number_Sequence) as "minimum values of continuous'Sequence'" ,max(Number_Sequence) as
"maximum values of continuous'Sequence'"

from Table2

group by subtract,Group_Name;
```

Screenshot of the Code:

The screenshot displays the MySQL Workbench interface. The top toolbar includes icons for File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar shows the 'SCHEMAS' panel with a tree view of databases: book_database, emp_db, ipl, ivy_sql_internship (selected), and zomato. The 'ivy_sql_internship' database is expanded, showing tables like country_details, customer, orders, sequence, and zomato. The main editor window shows the SQL code from the previous block. Below the editor, the 'Result Grid' is visible, showing the output of the query. The grid has three columns: Group_Name, minimum values of continuous'Sequence', and maximum values of continuous'Sequence'. The data is as follows:

Group_Name	minimum values of continuous'Sequence'	maximum values of continuous'Sequence'
A	1	3
A	5	6
A	8	9
B	11	11
C	1	3