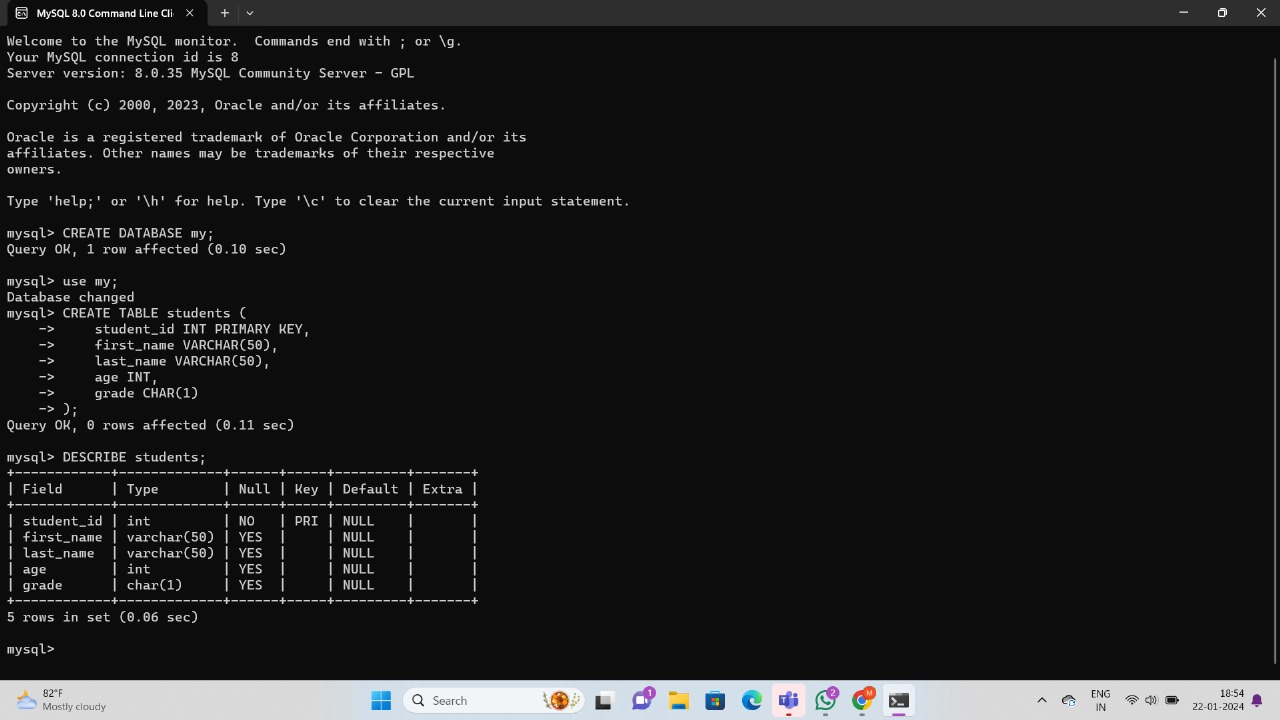
**Madiha Aimon Tappal**

[**madihaaimon@gmail.com**](mailto:madihaaimon@gmail.com)

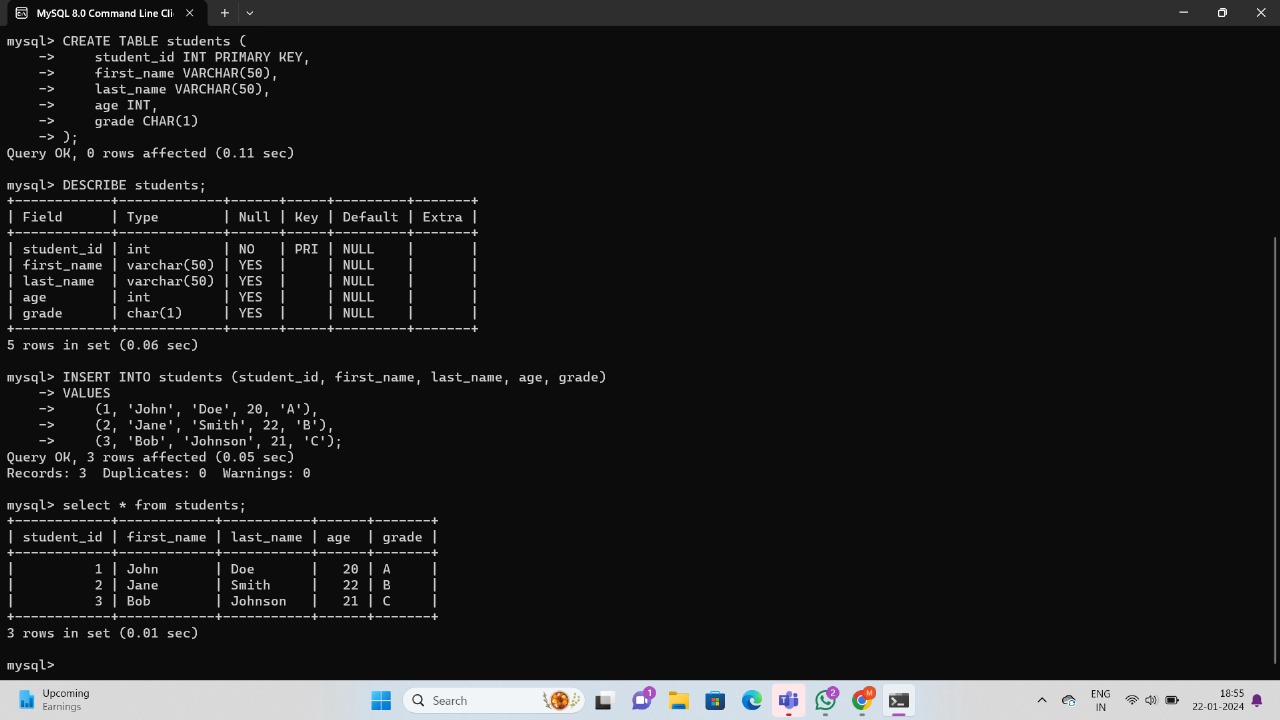
**Day -4**

**Data Engineering Batch – 1**

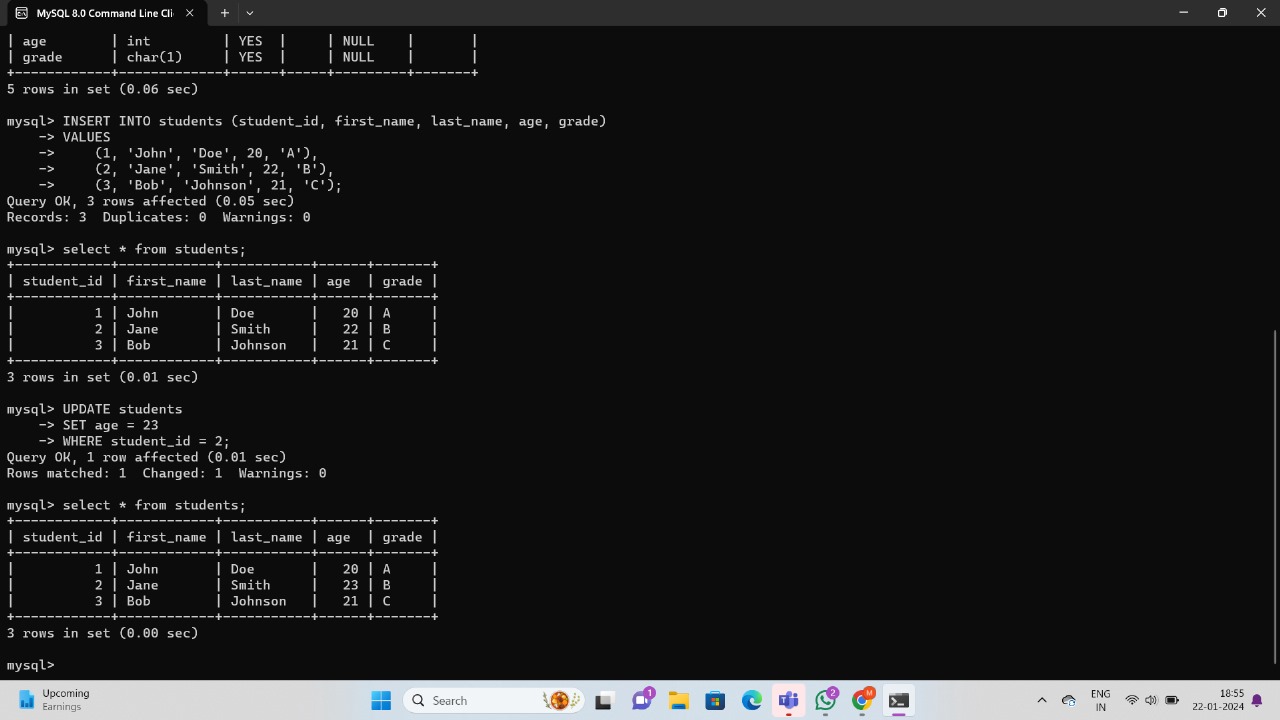
**Create database :**

****

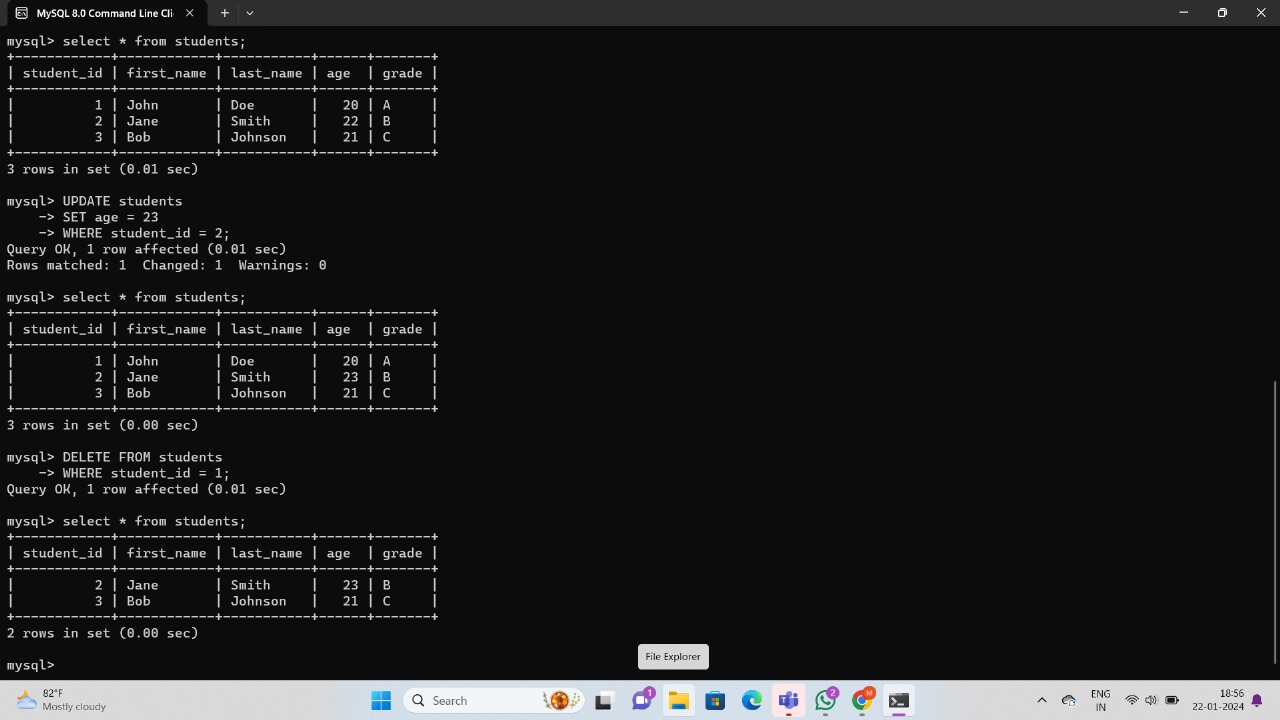
**Insert:**

****

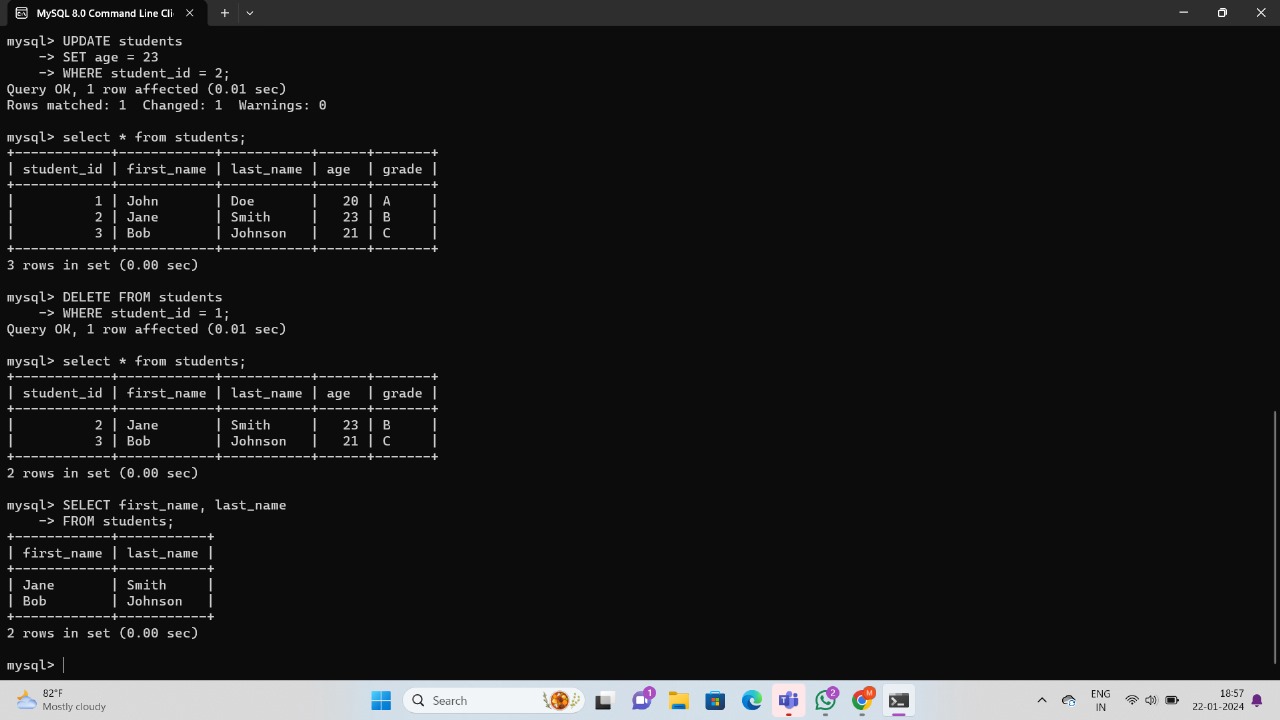
**Update:**

****

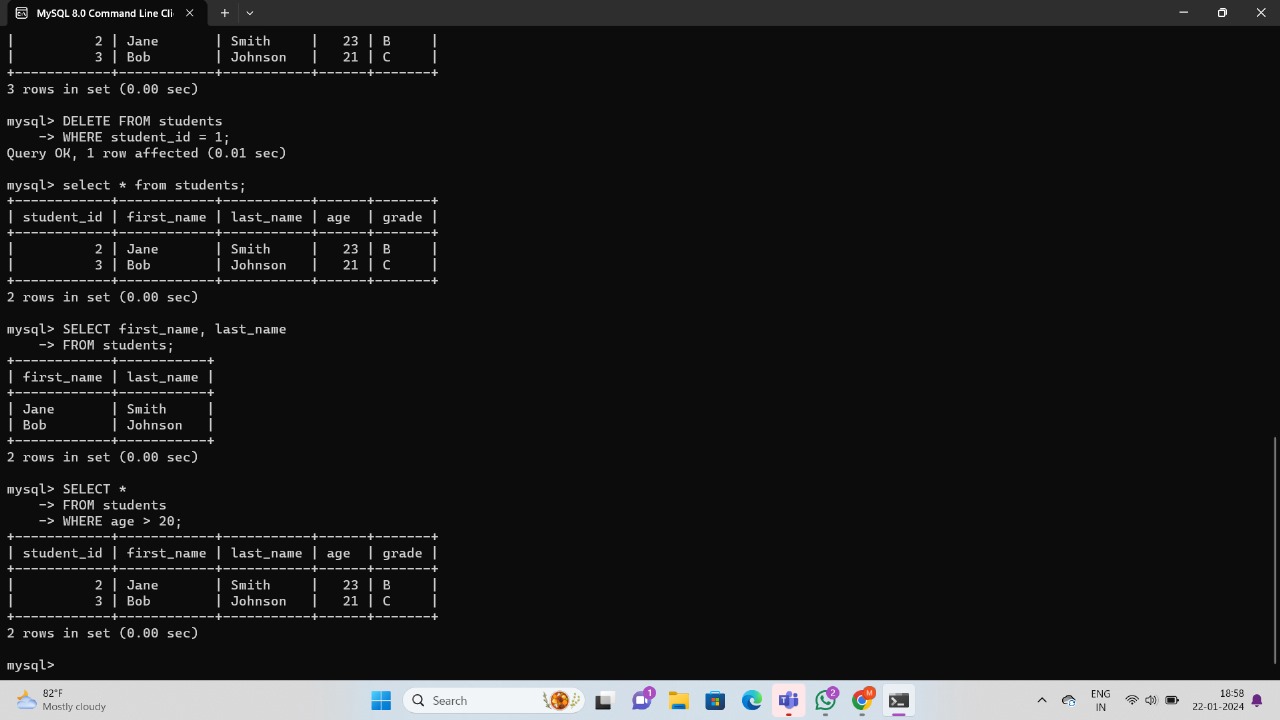
**Delete :**

****

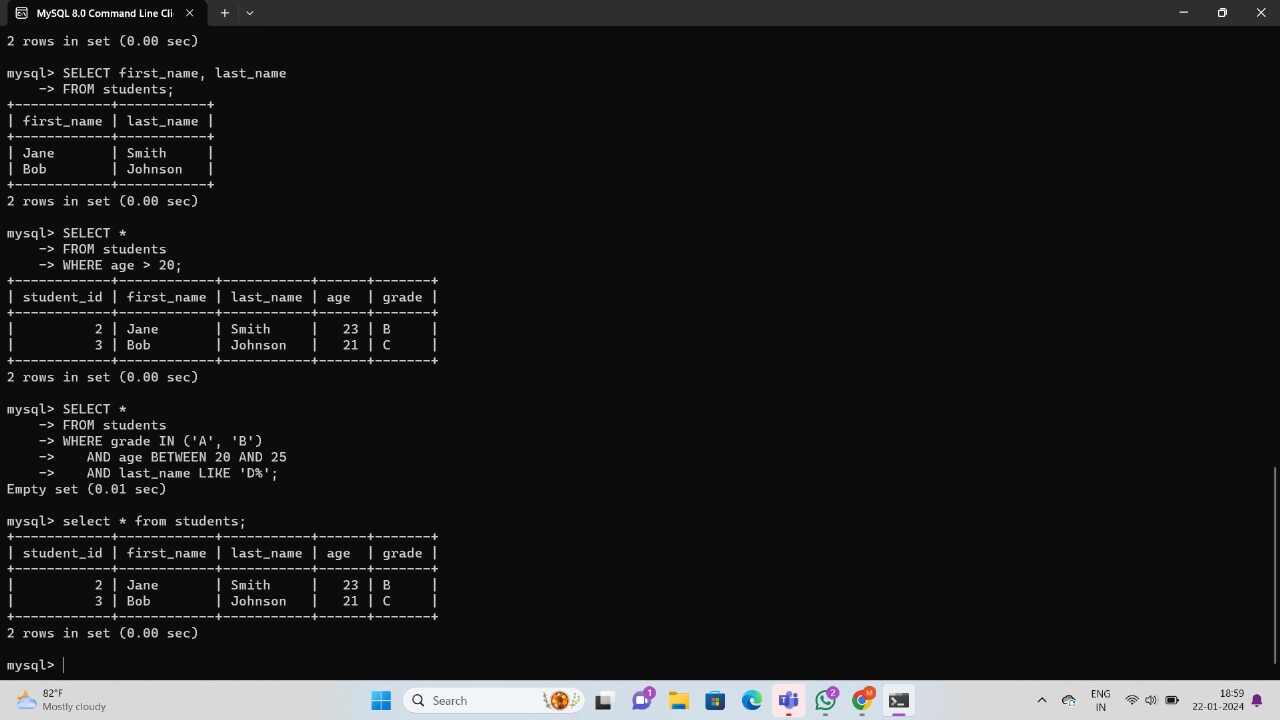
**Retrieving Specific Attributes:**

****

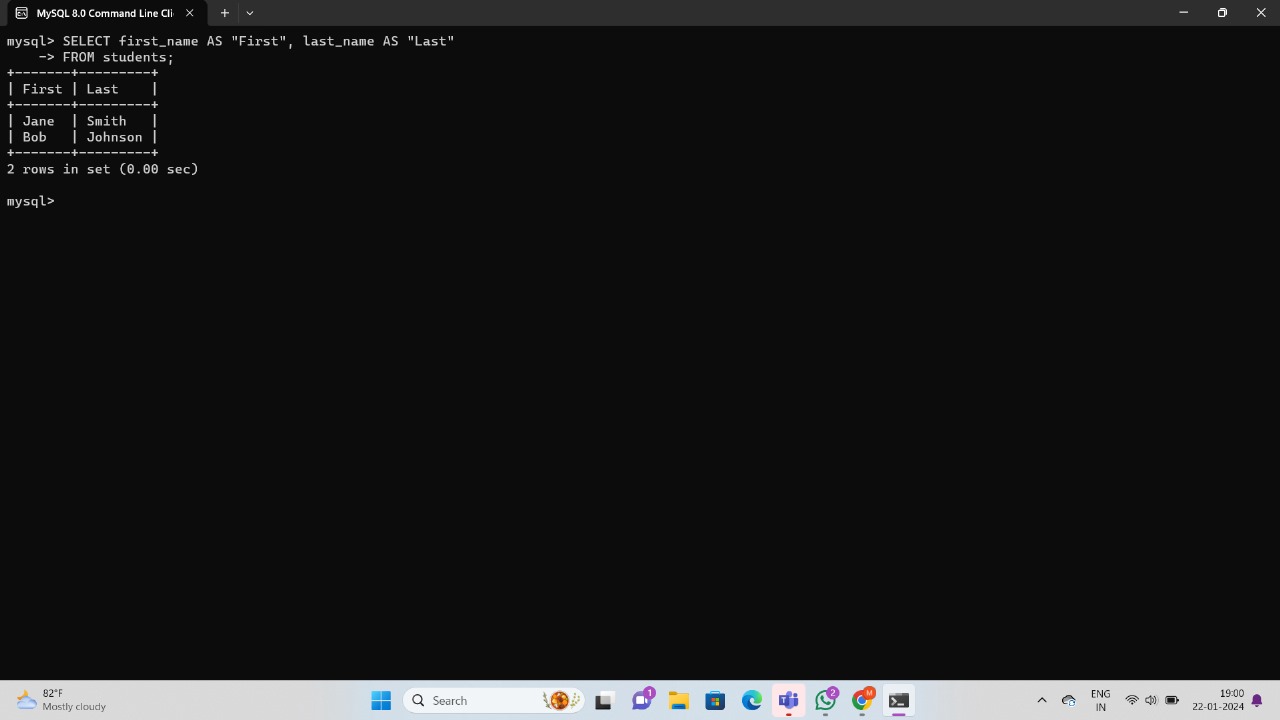
**Retrieving Selected Rows:**

****

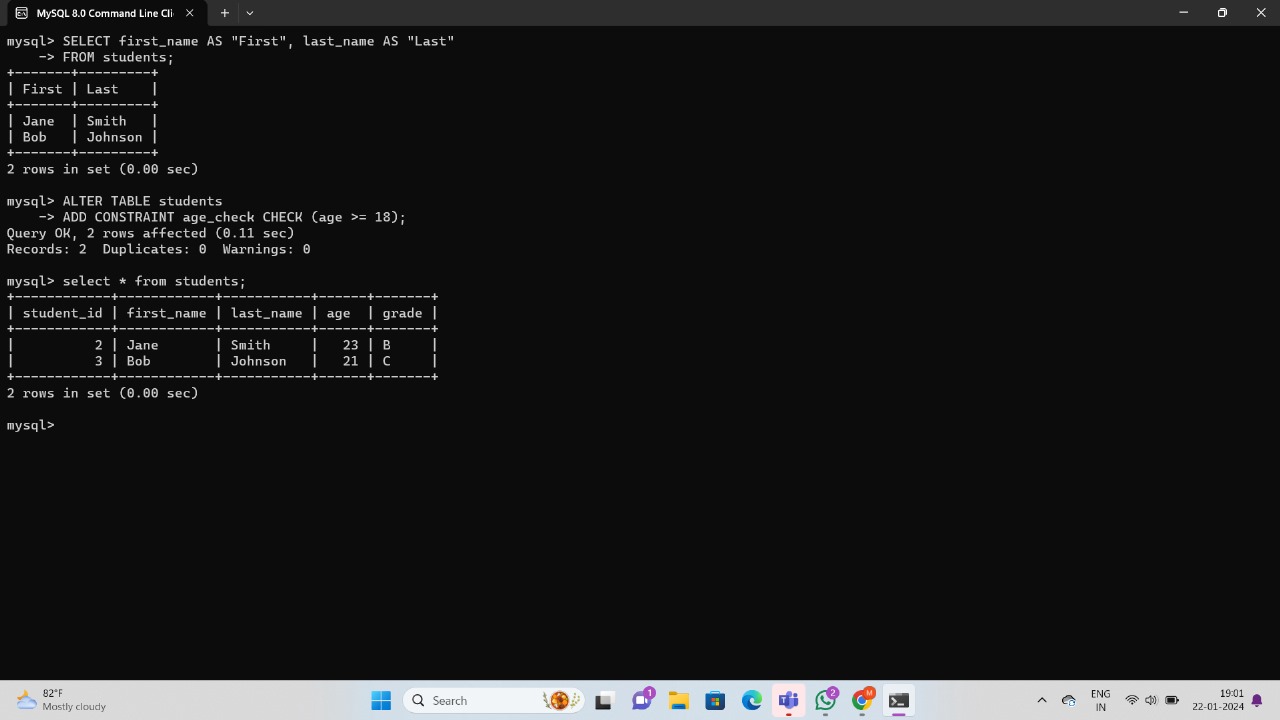
**Using IN, DISTINCT, AND, OR, BETWEEN, LIKE:**

****

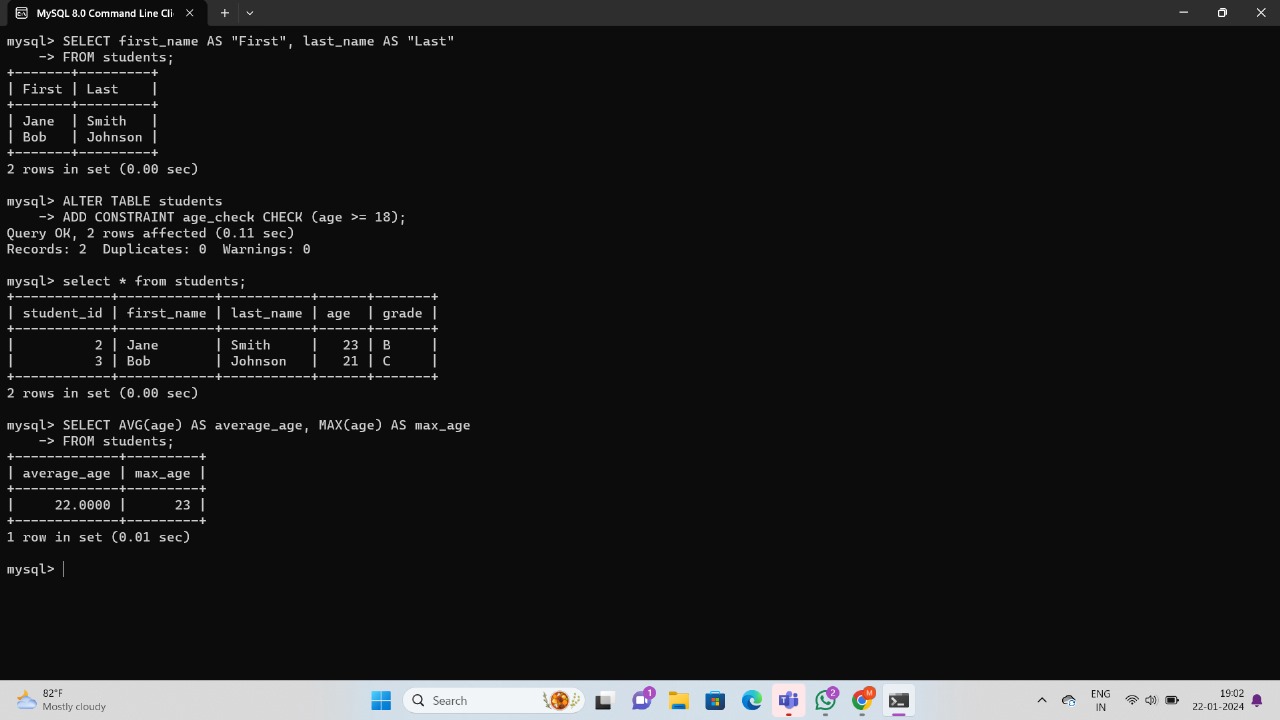
**Using Aliases:**

****

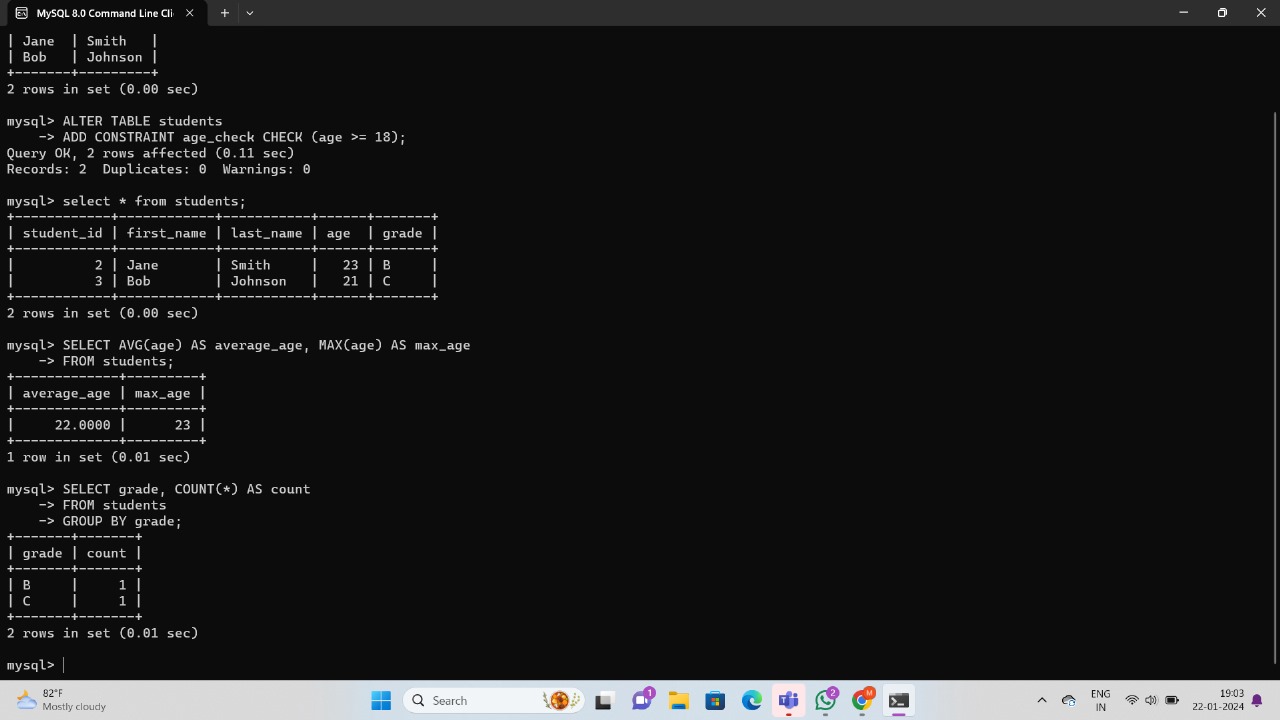
**Implementing Data Integrity:**

****

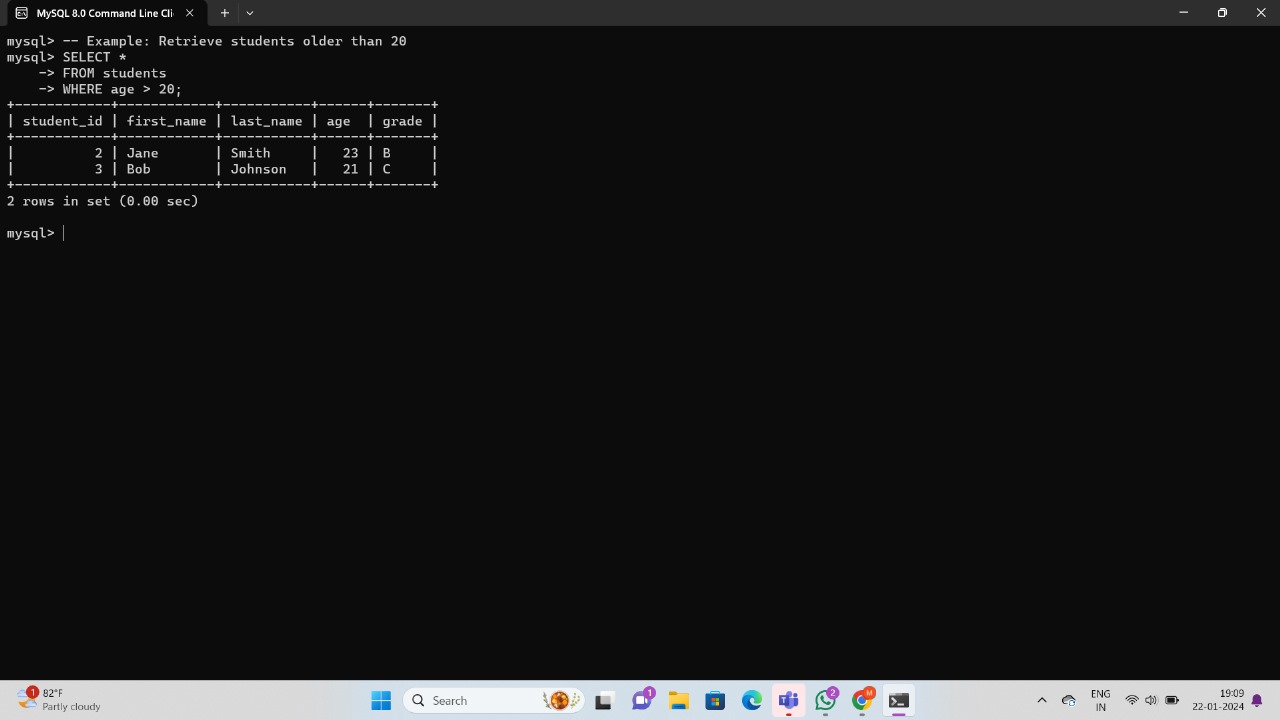
**Using Aggregate Functions:**

****

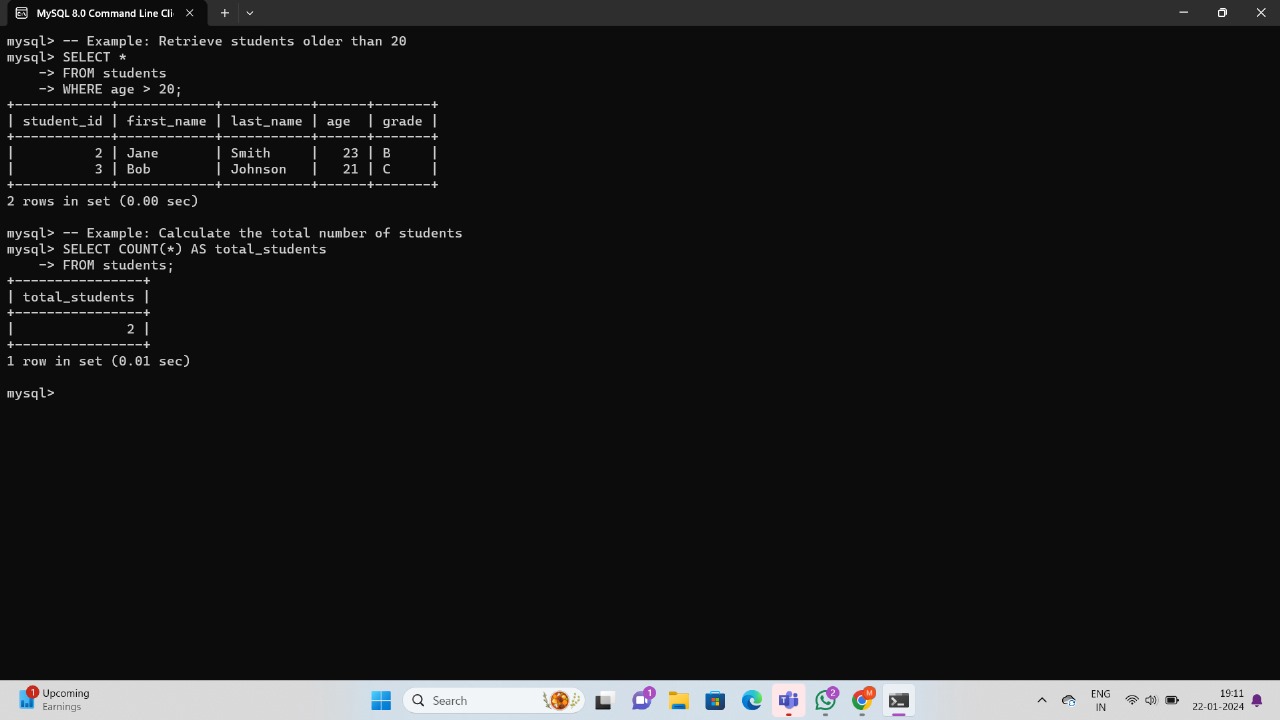
**Grouping Data:**

****

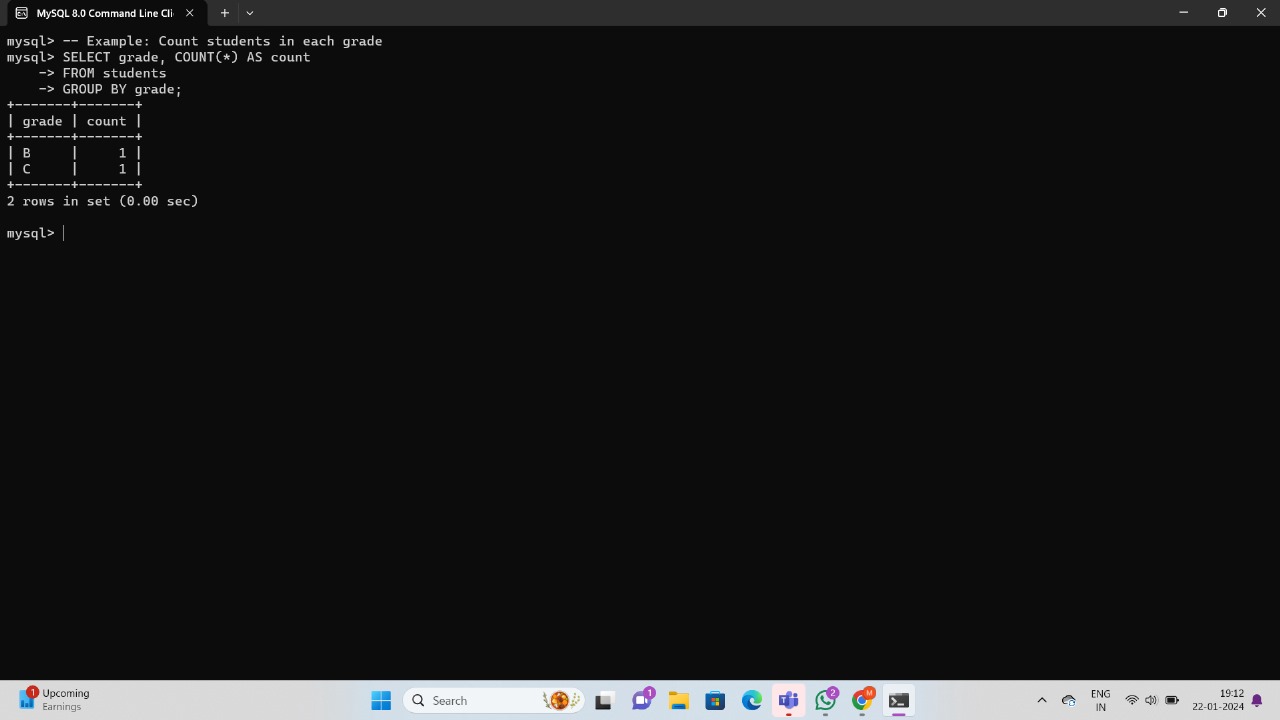
**Filtering Data using SQL Queries:**

****

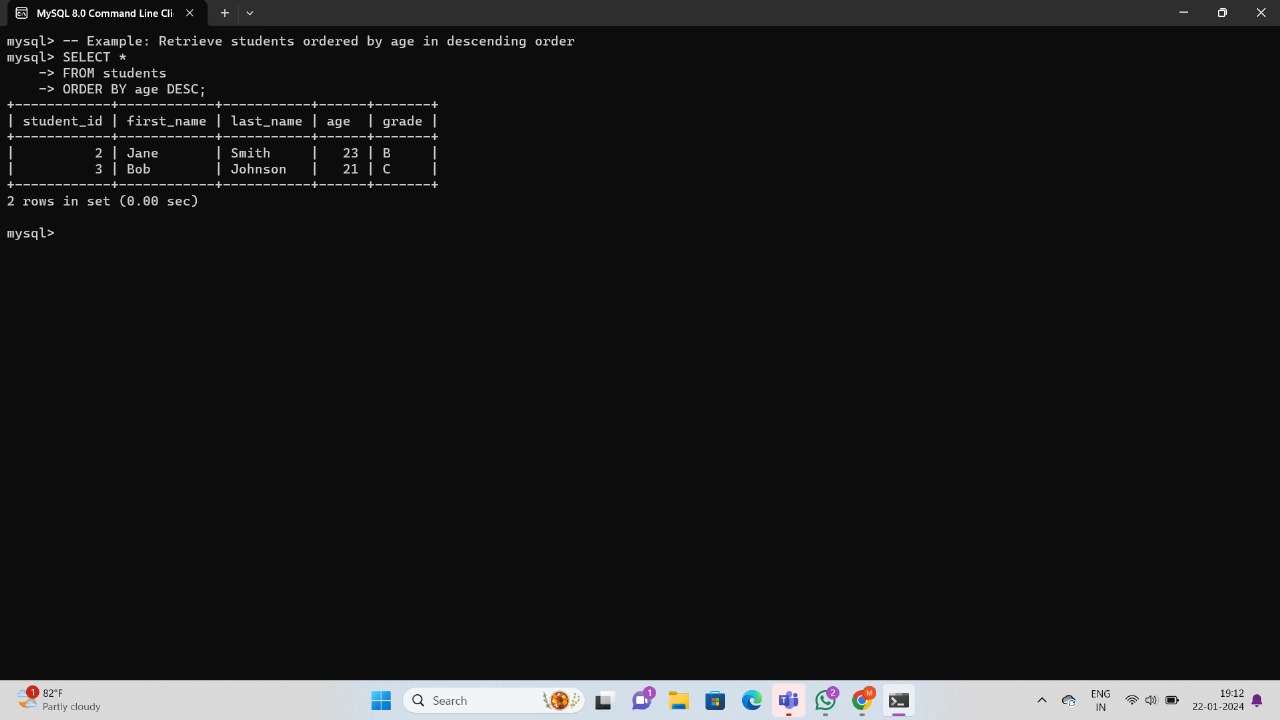
**Total Aggregations using SQL Queries:**

****

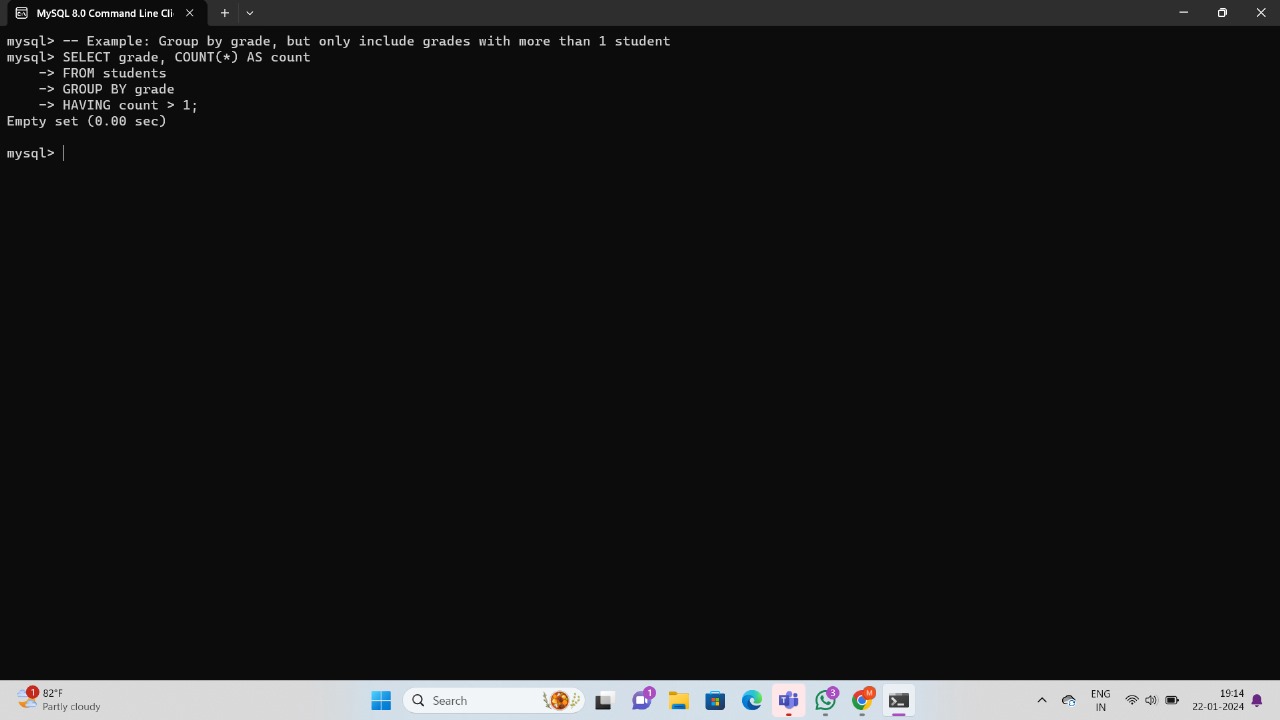
**Group By Aggregations using SQL Queries:**

****

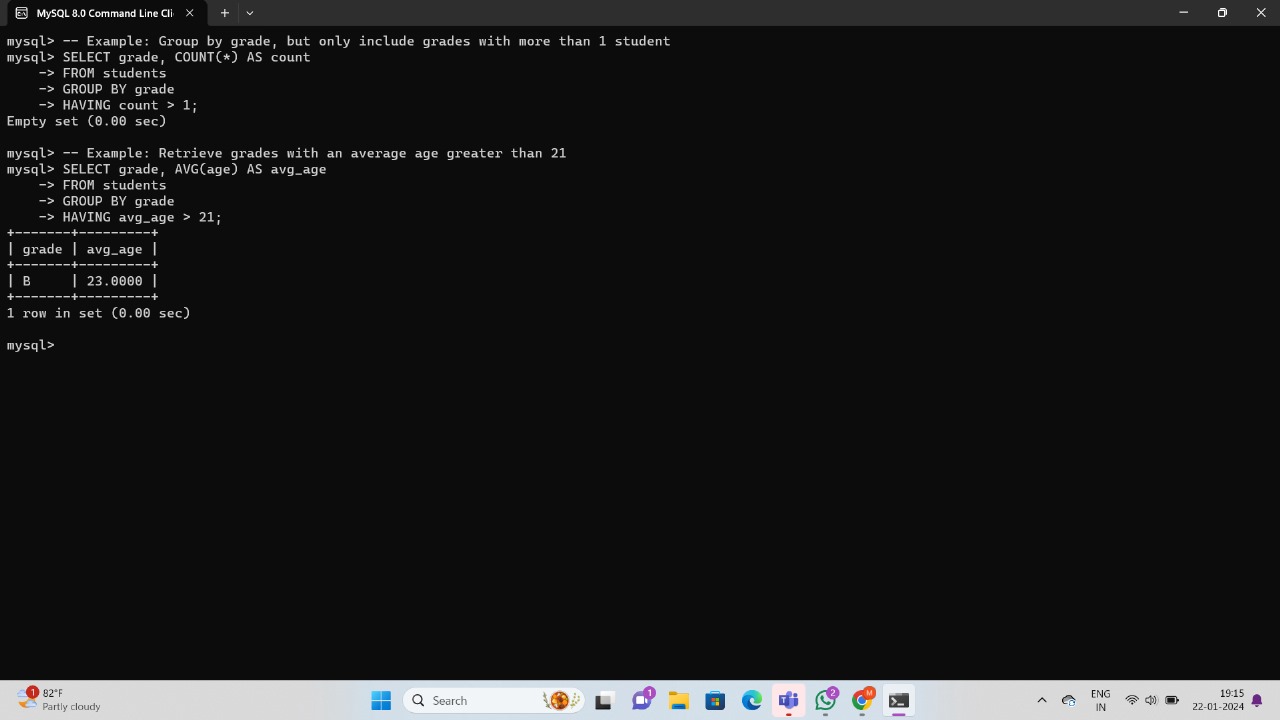
**Order of Execution of SQL Queries:**

****

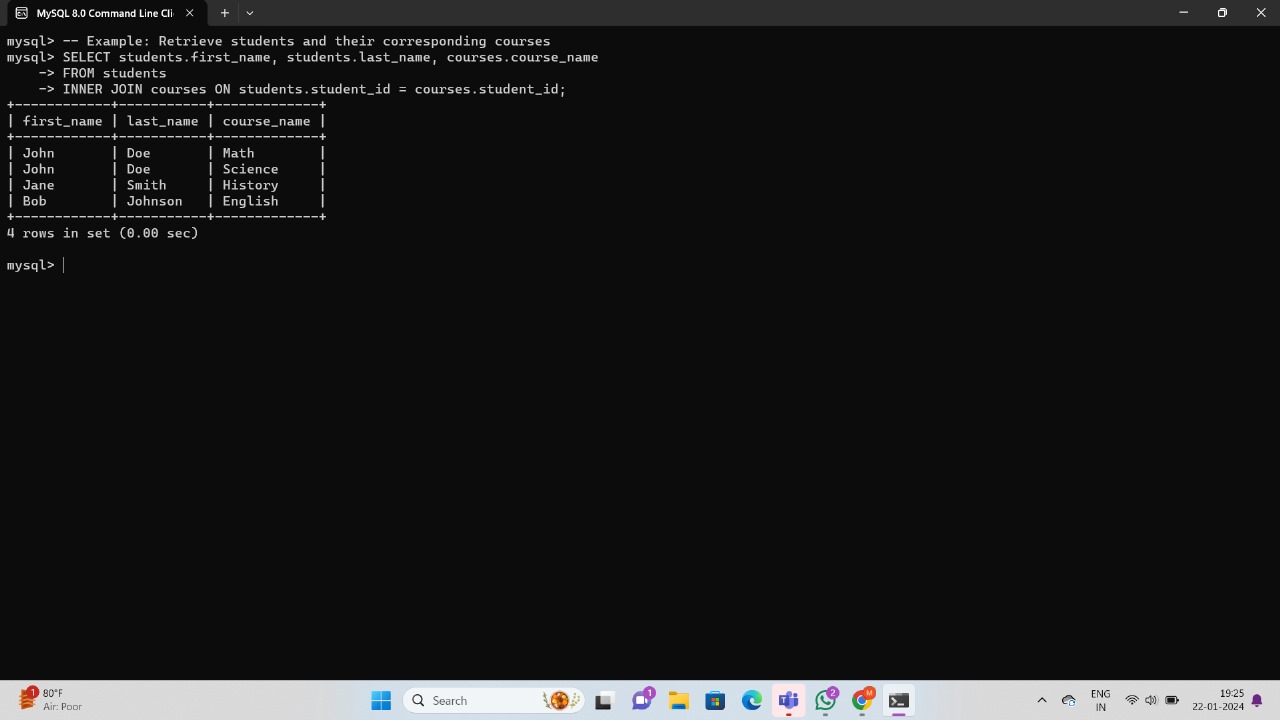
**Group and Filter Data**

****

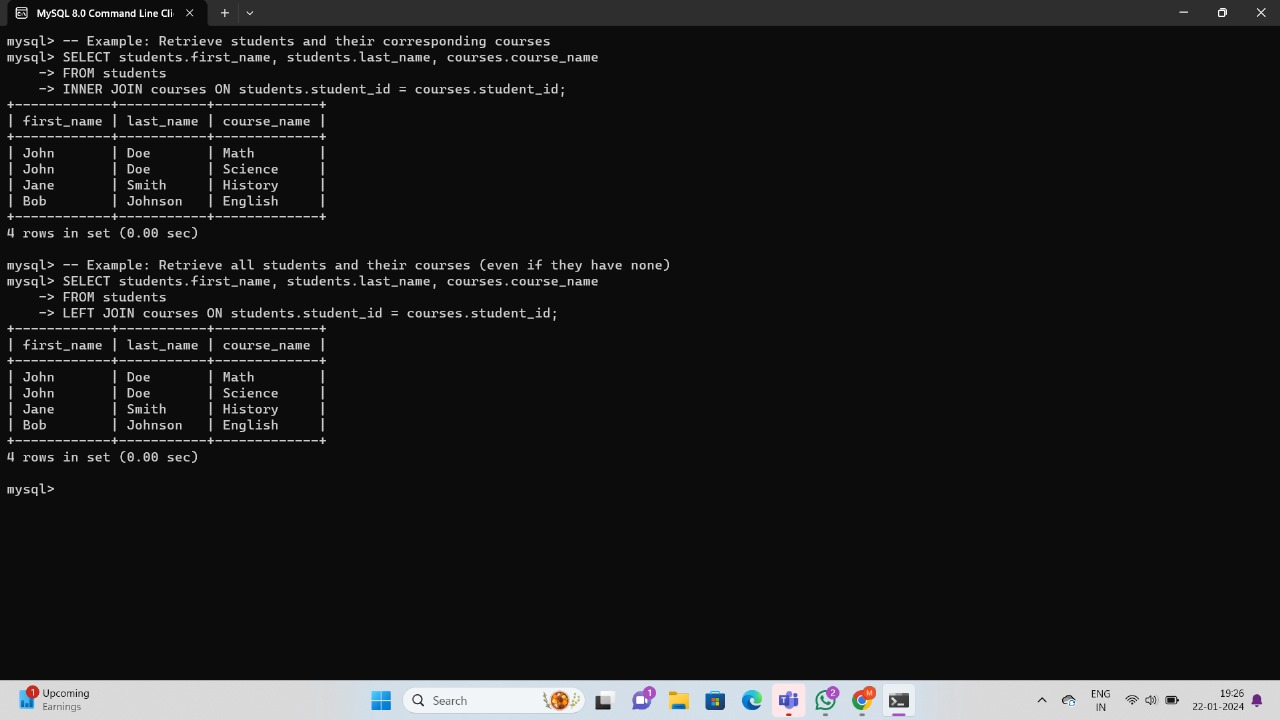
**Filter Data based on Aggregated Results using Group By and Having:**

****

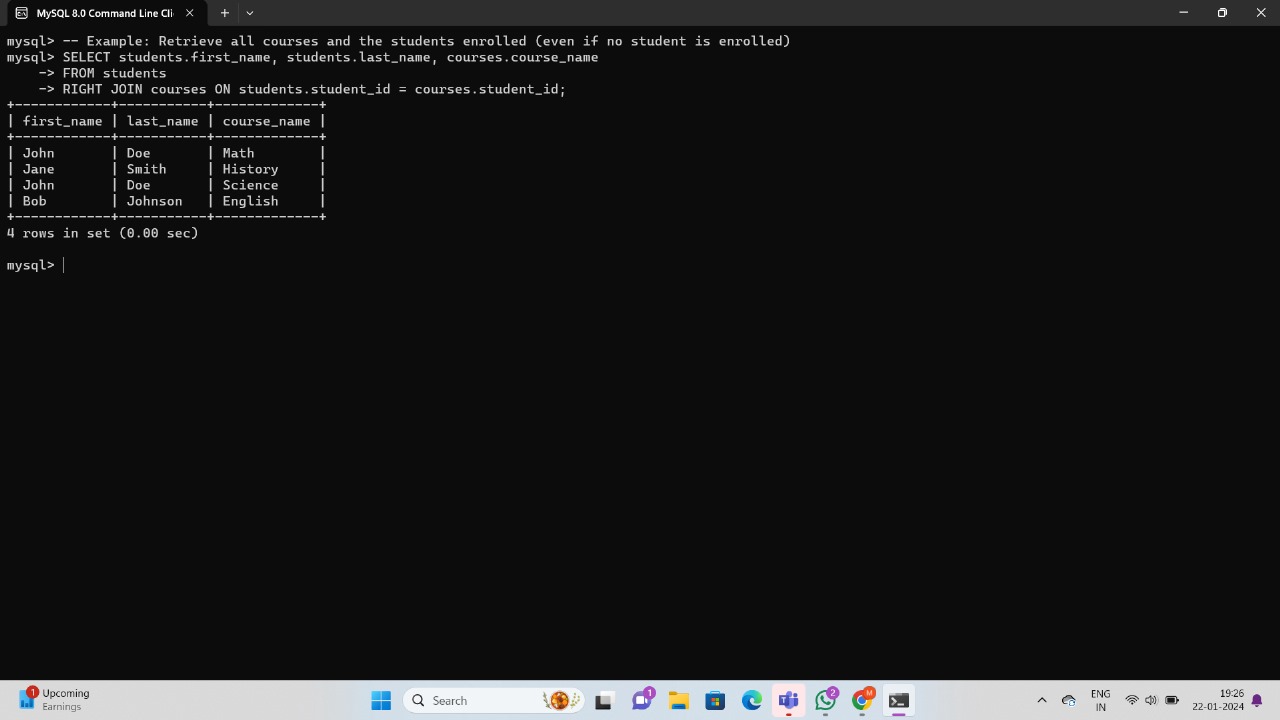
**Inner Join:**

****

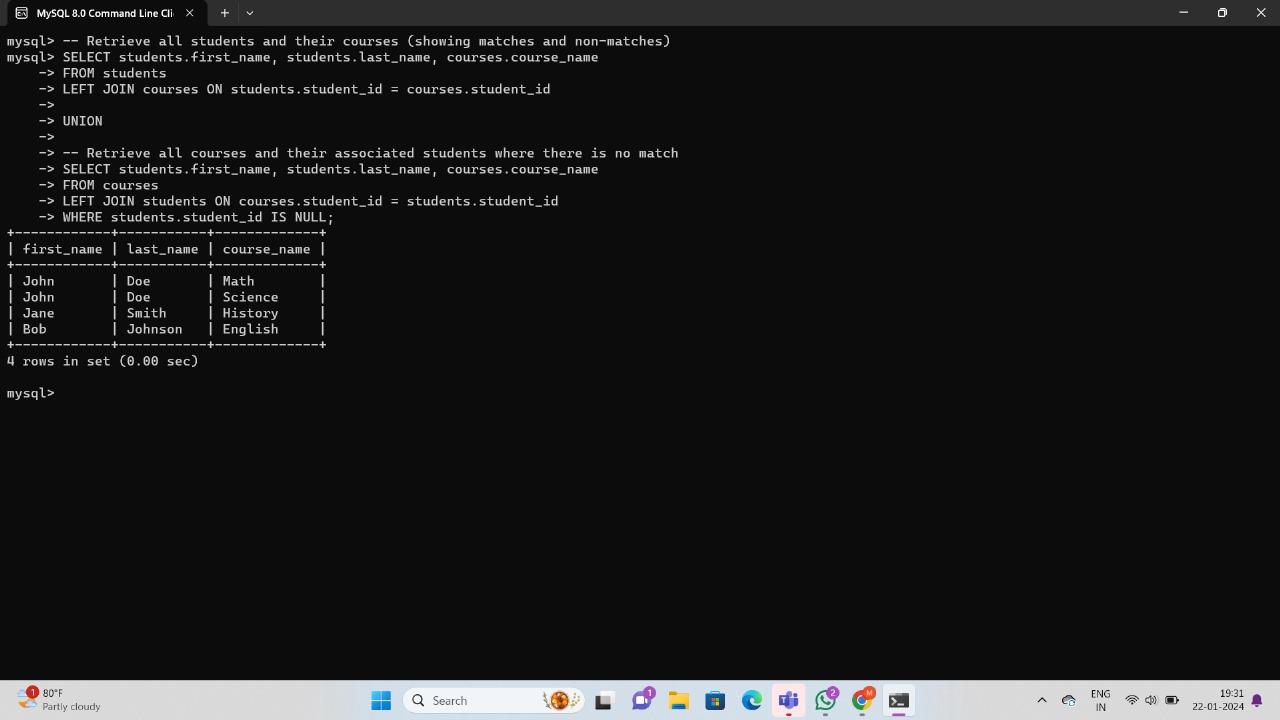
**left join:**

****

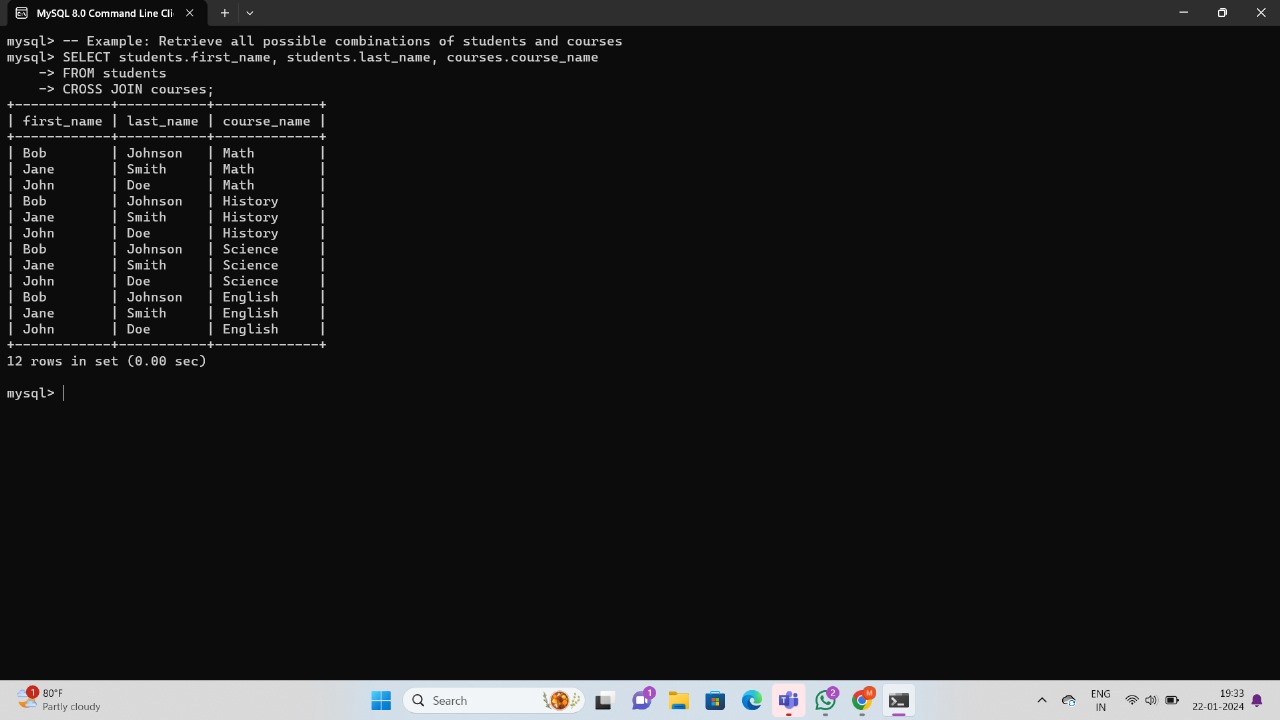
**Right join:**

****

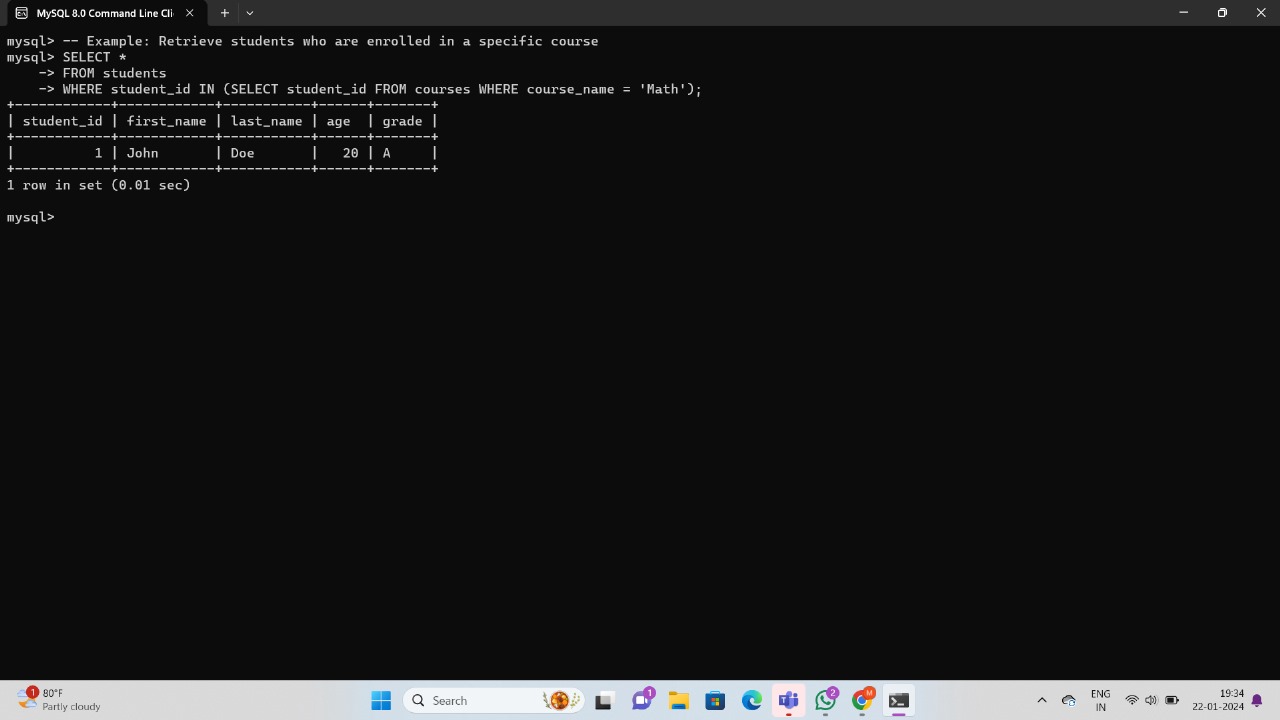
**FULL OUTER JOIN**

****

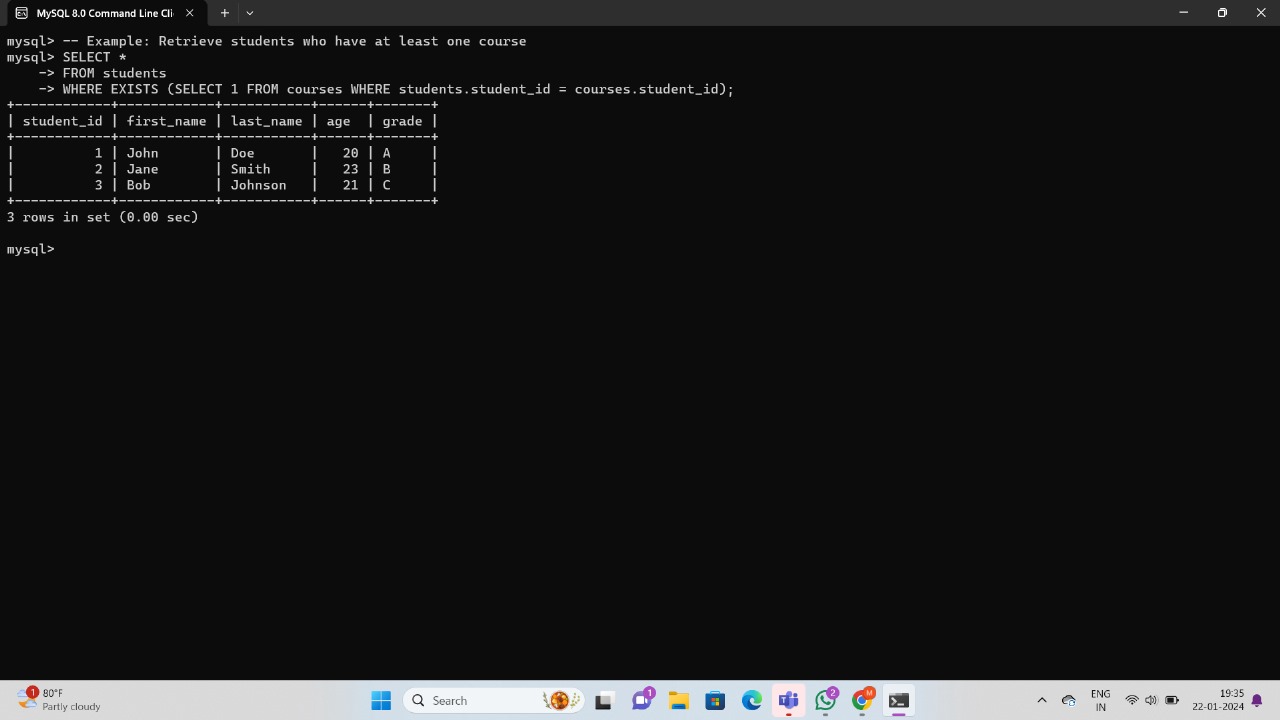
**Cross join**

****

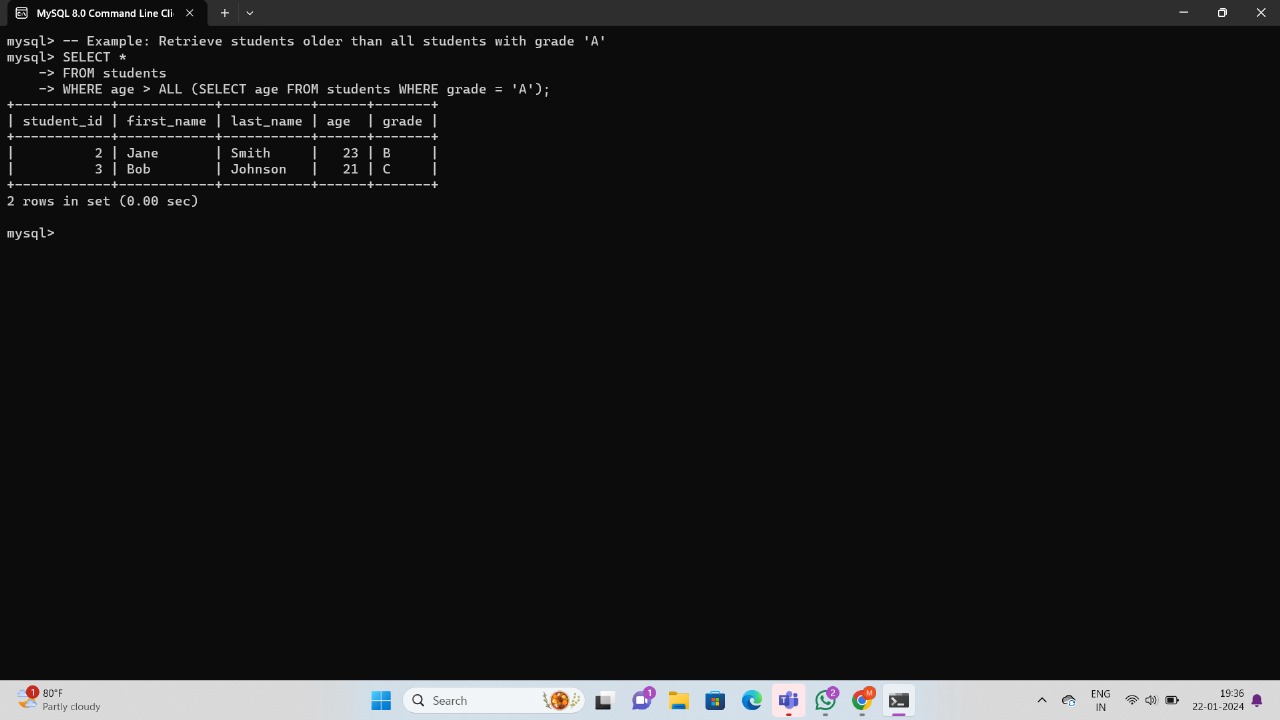
**Subquery**

****

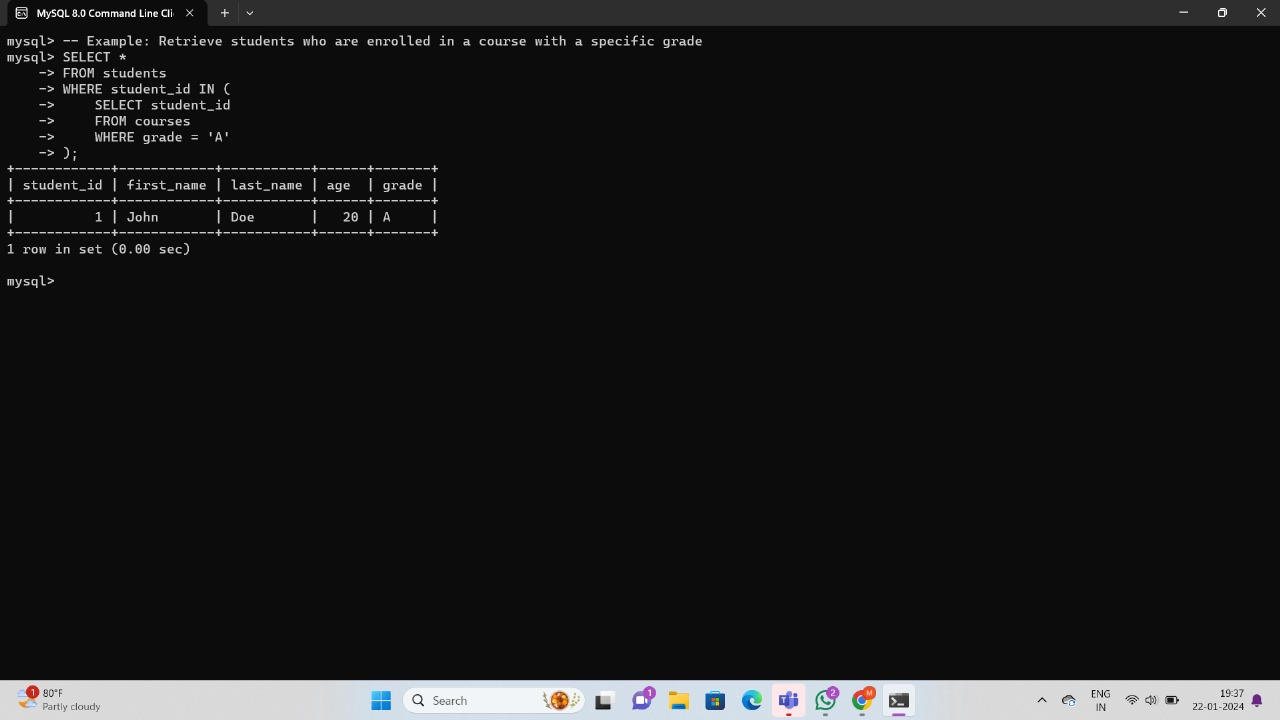
**EXISTS**

****

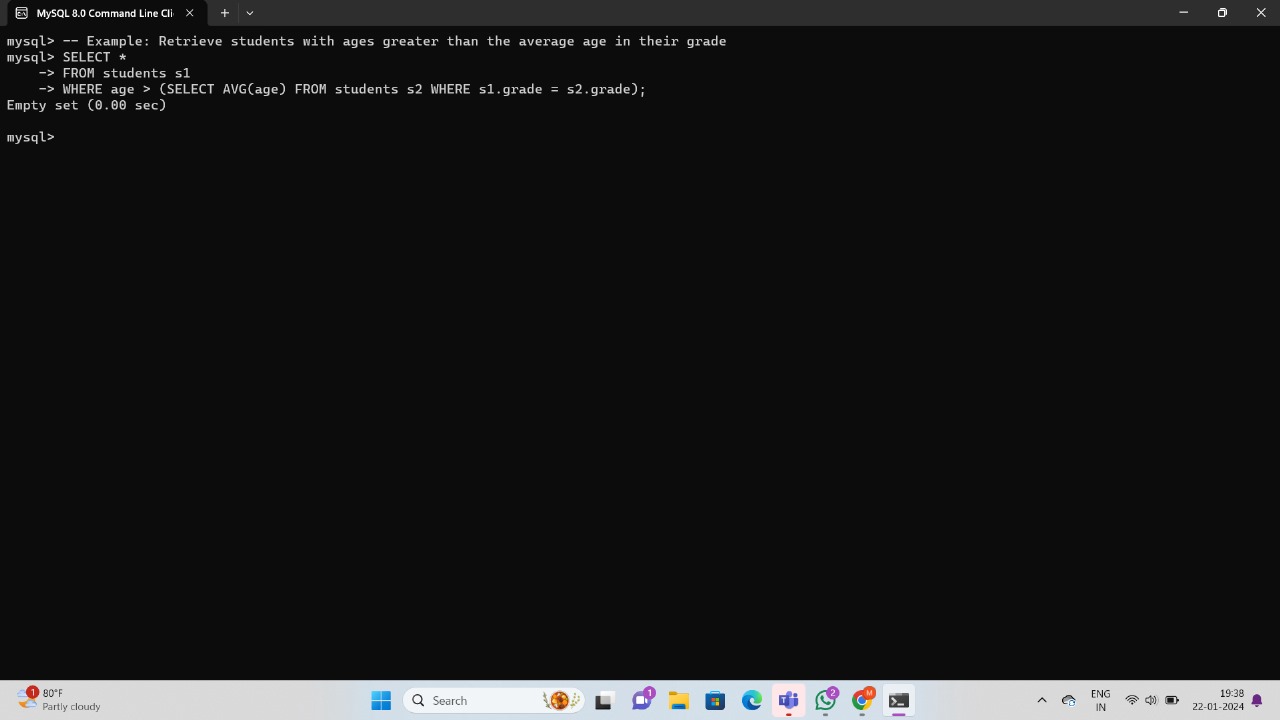
**ANY, ALL**

****

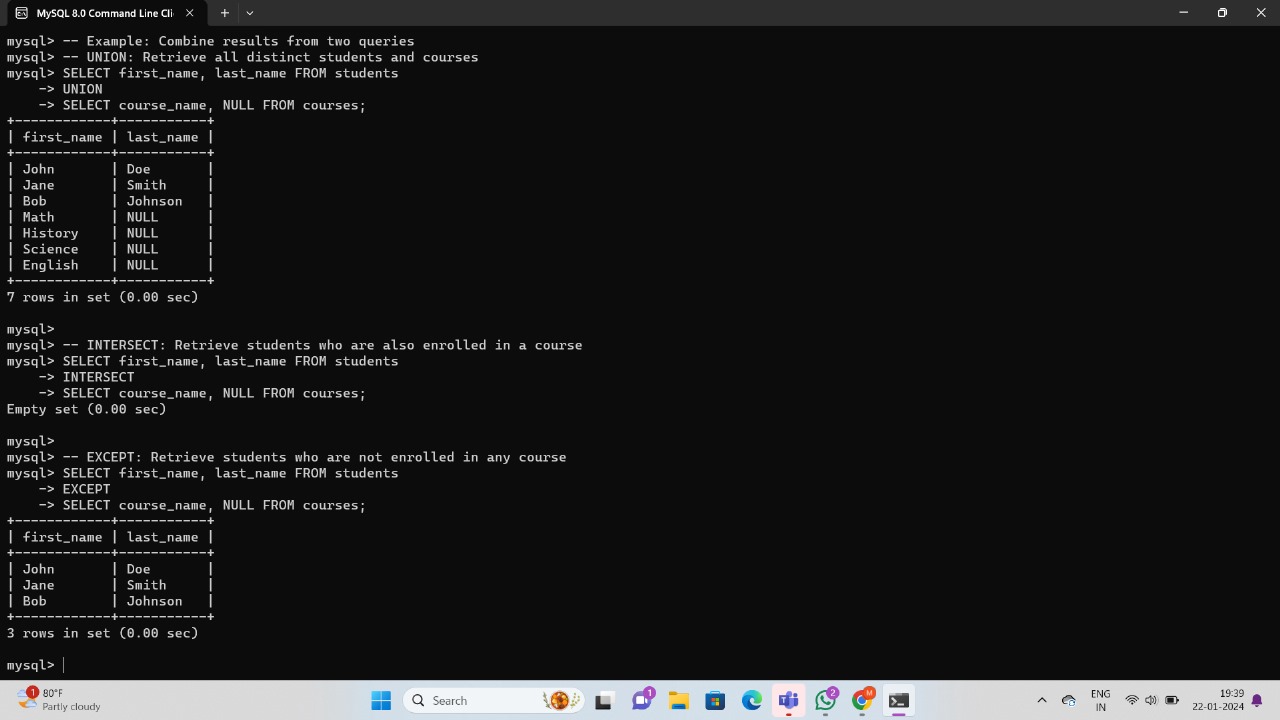
**Nested Subqueries**

****

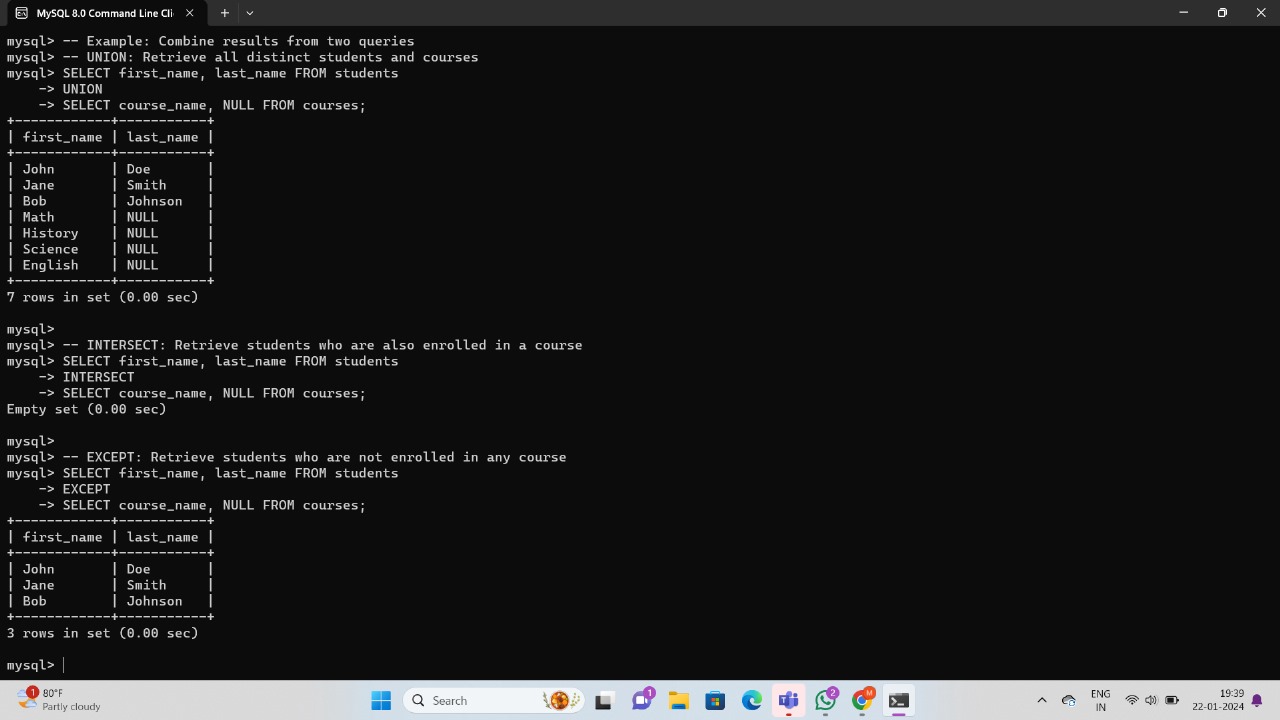
**Correlated Subqueries**

****

**Using UNION, INTERSECT, EXCEPT**

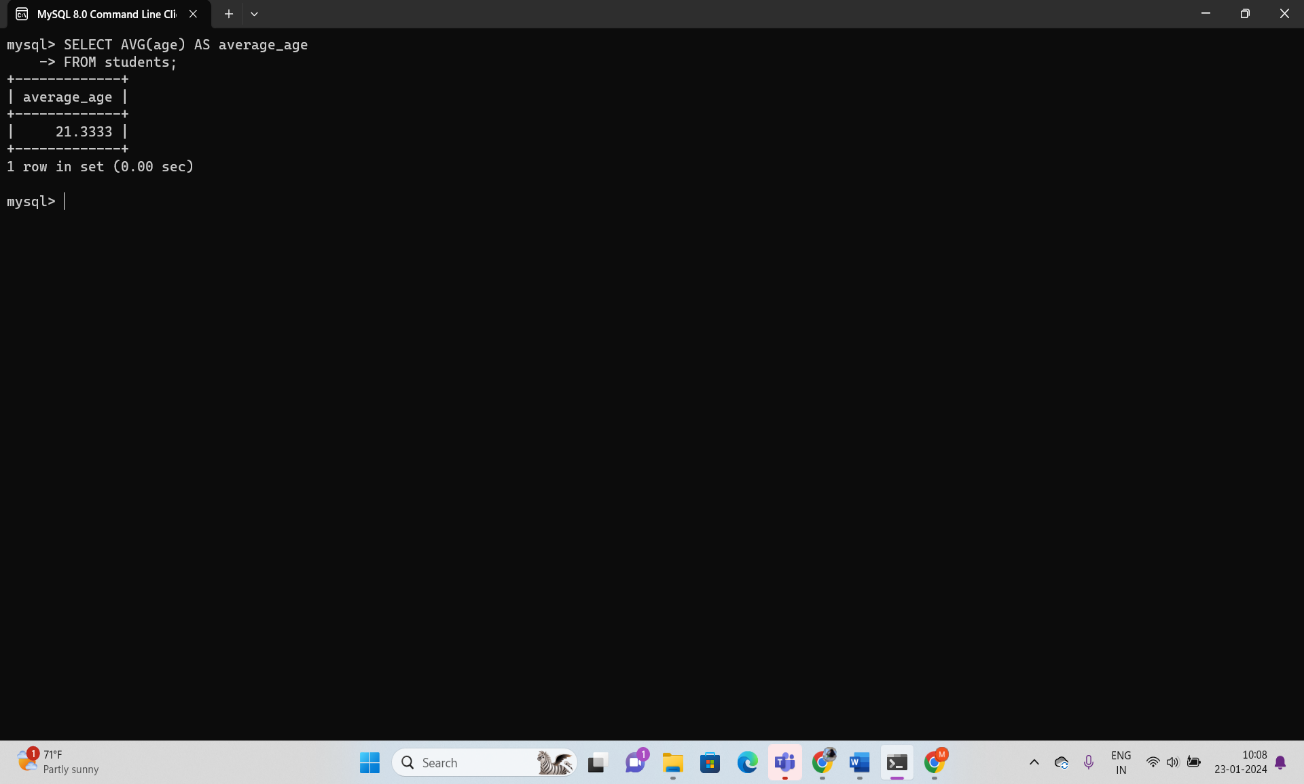
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**Merge statement**

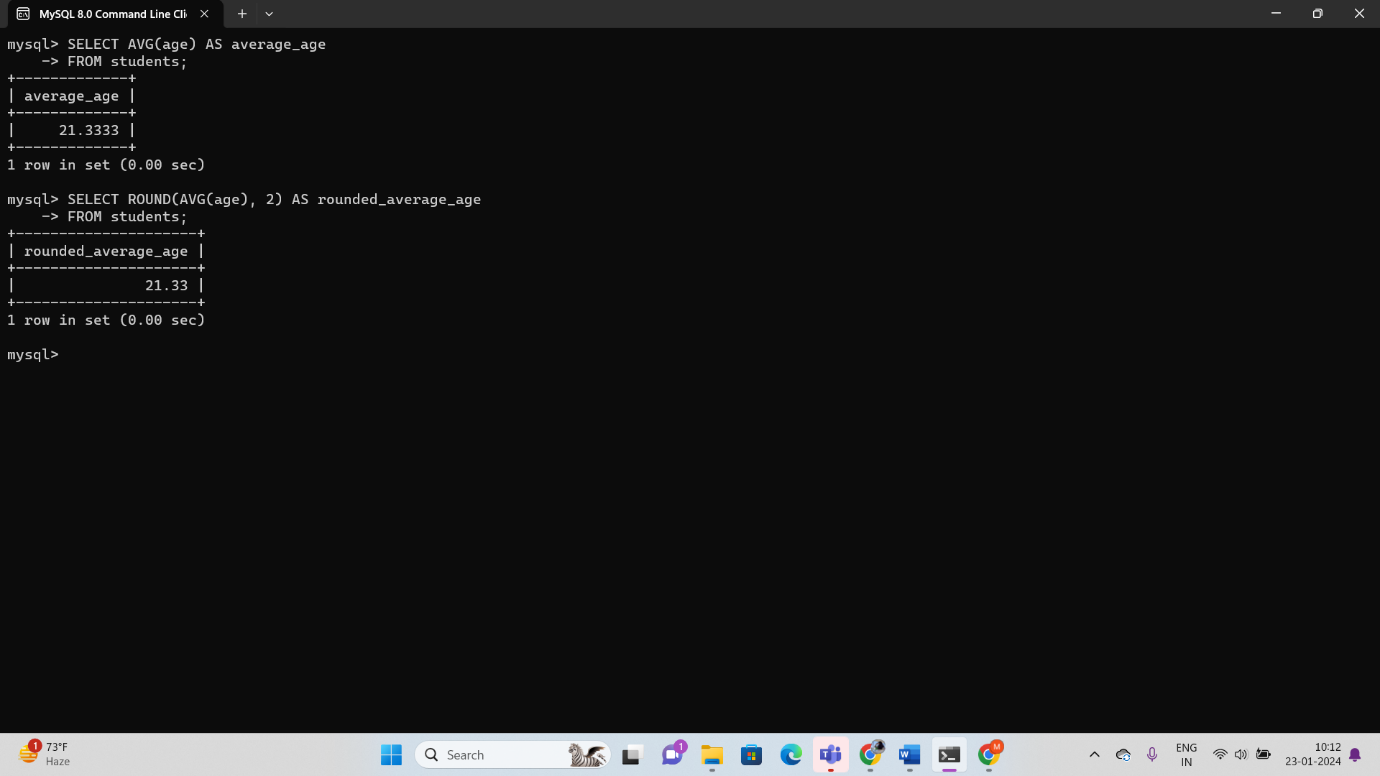
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**Example Queries with Mathematical Functions: -**

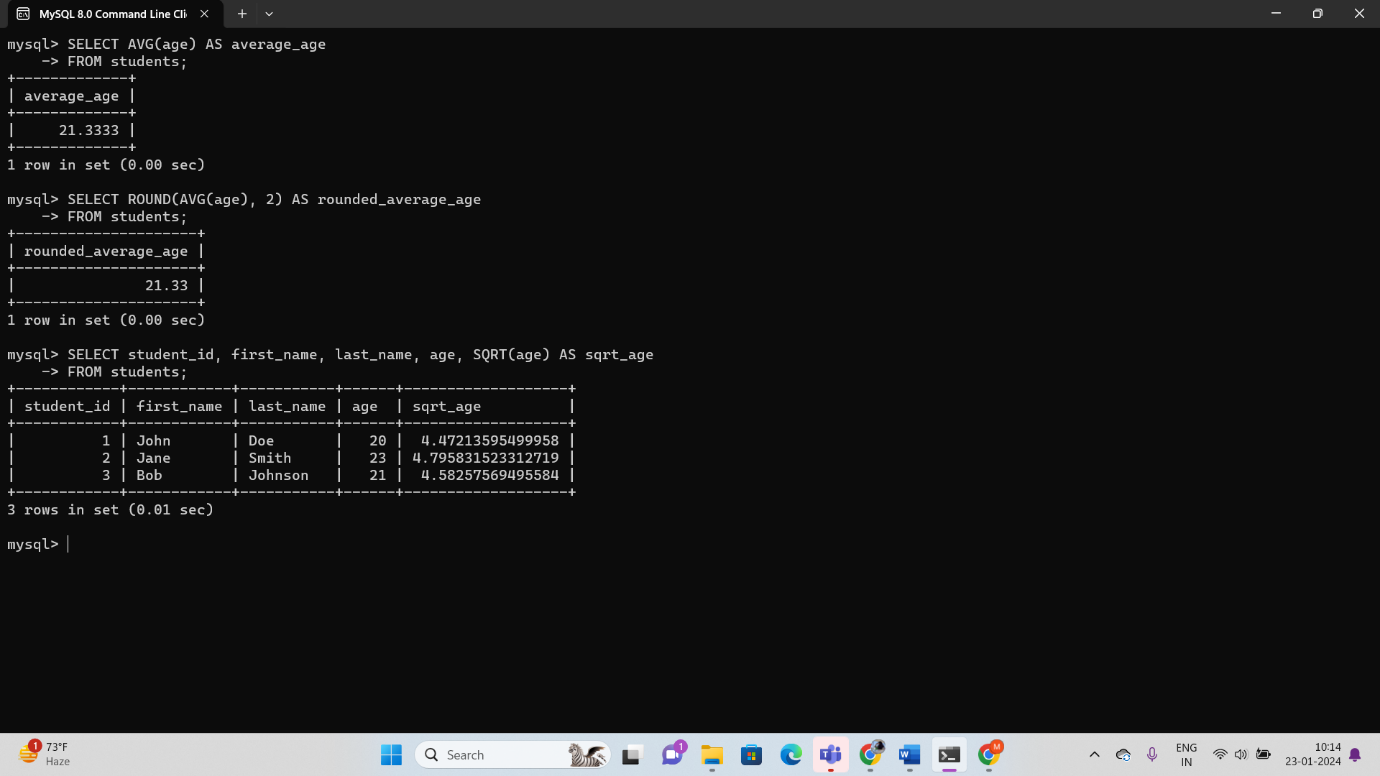
#### **Calculate the Average Age of Students:**

****

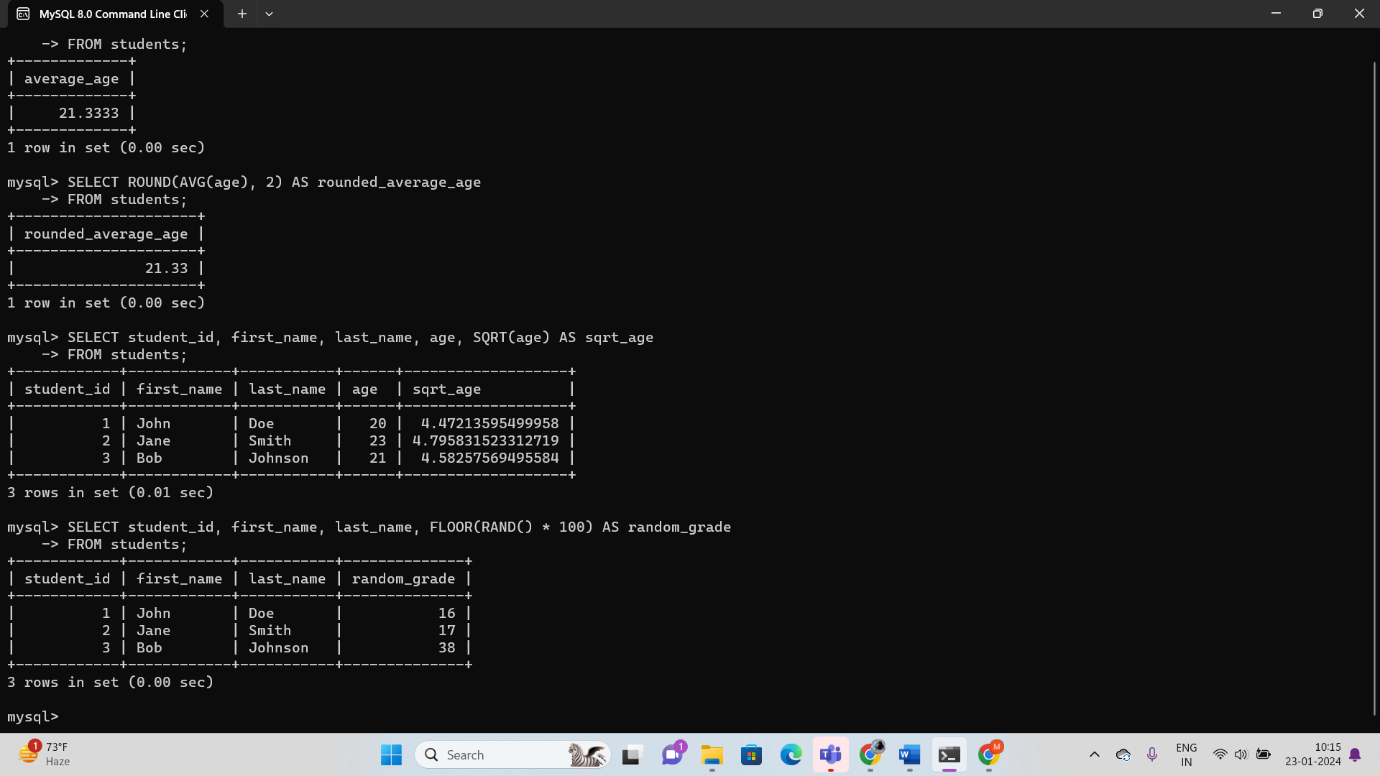
#### **Round the Average Age:**



#### **Calculate the Square Root of the Age:**

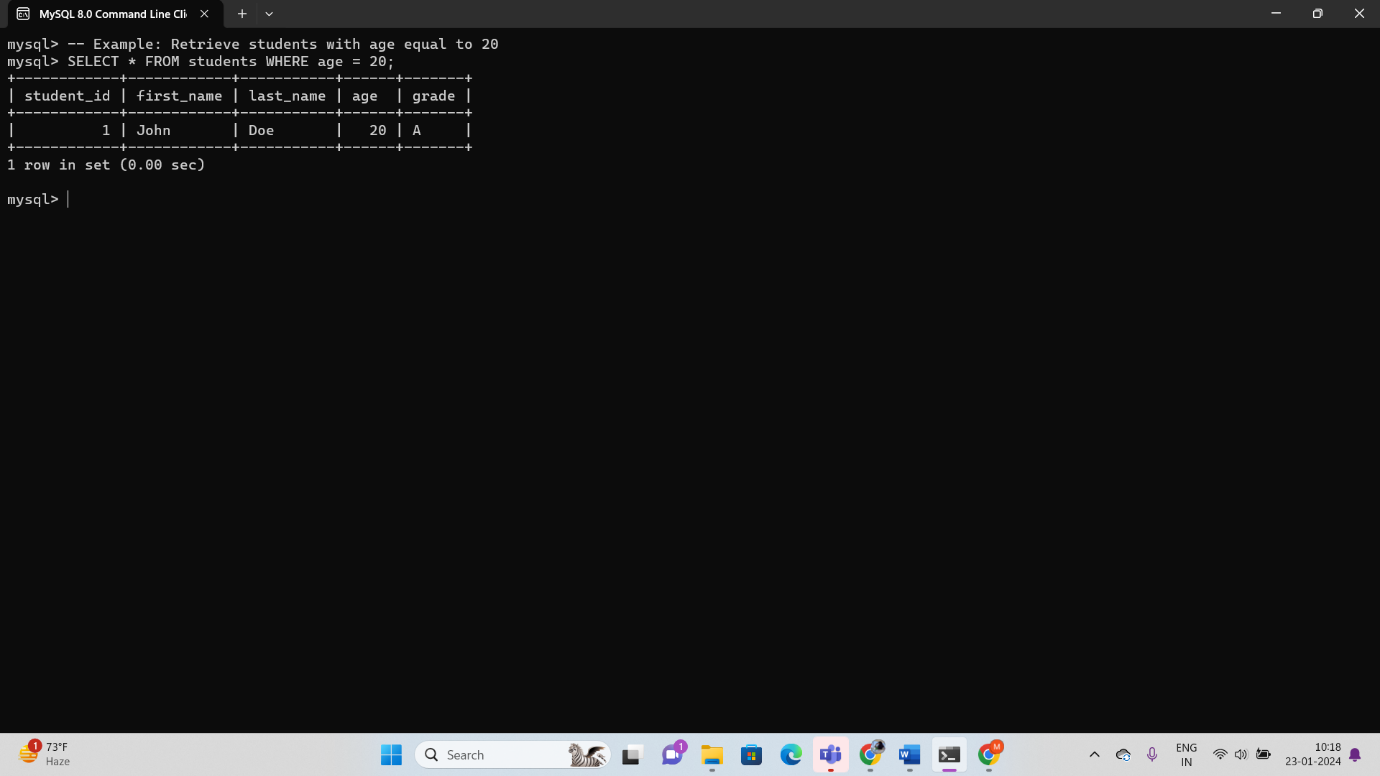


#### **Generate Random Grades for Students:**

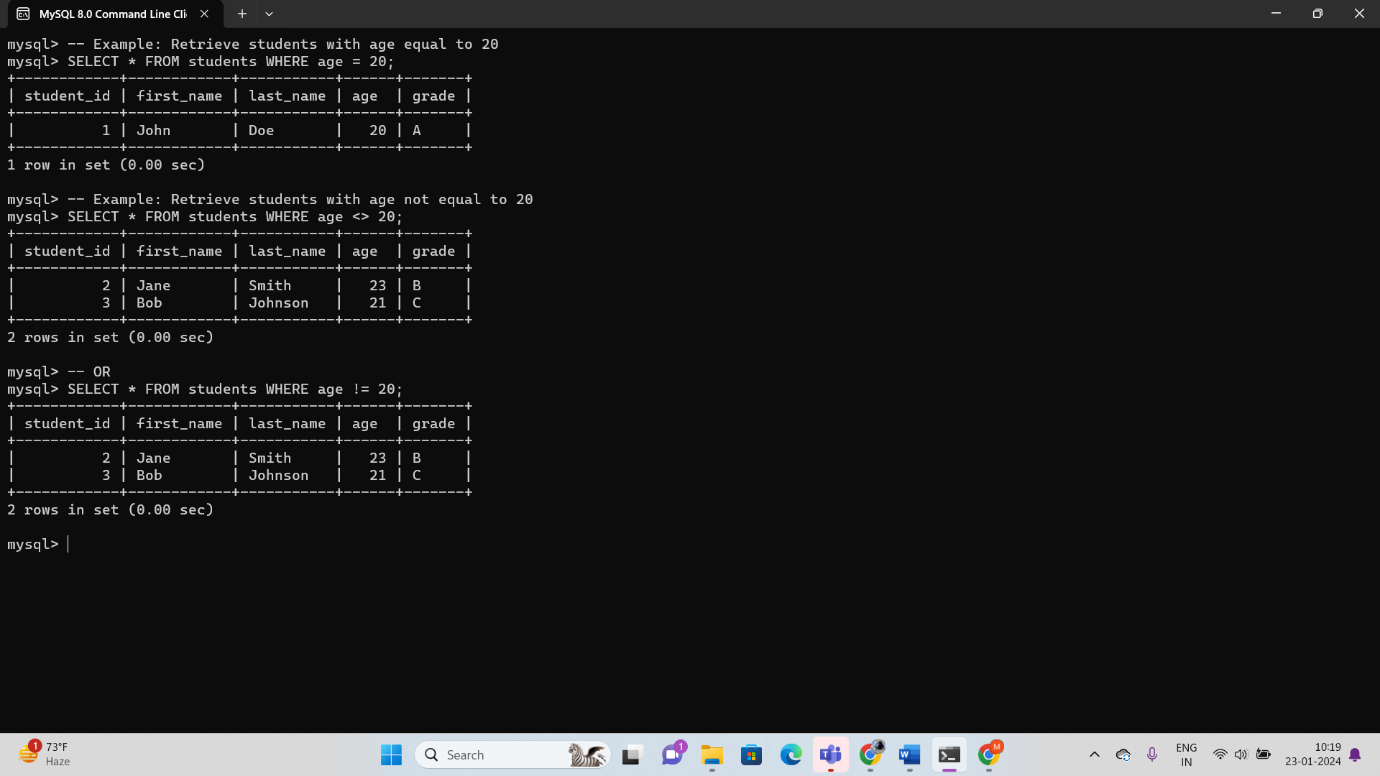


### Comparison Operators:

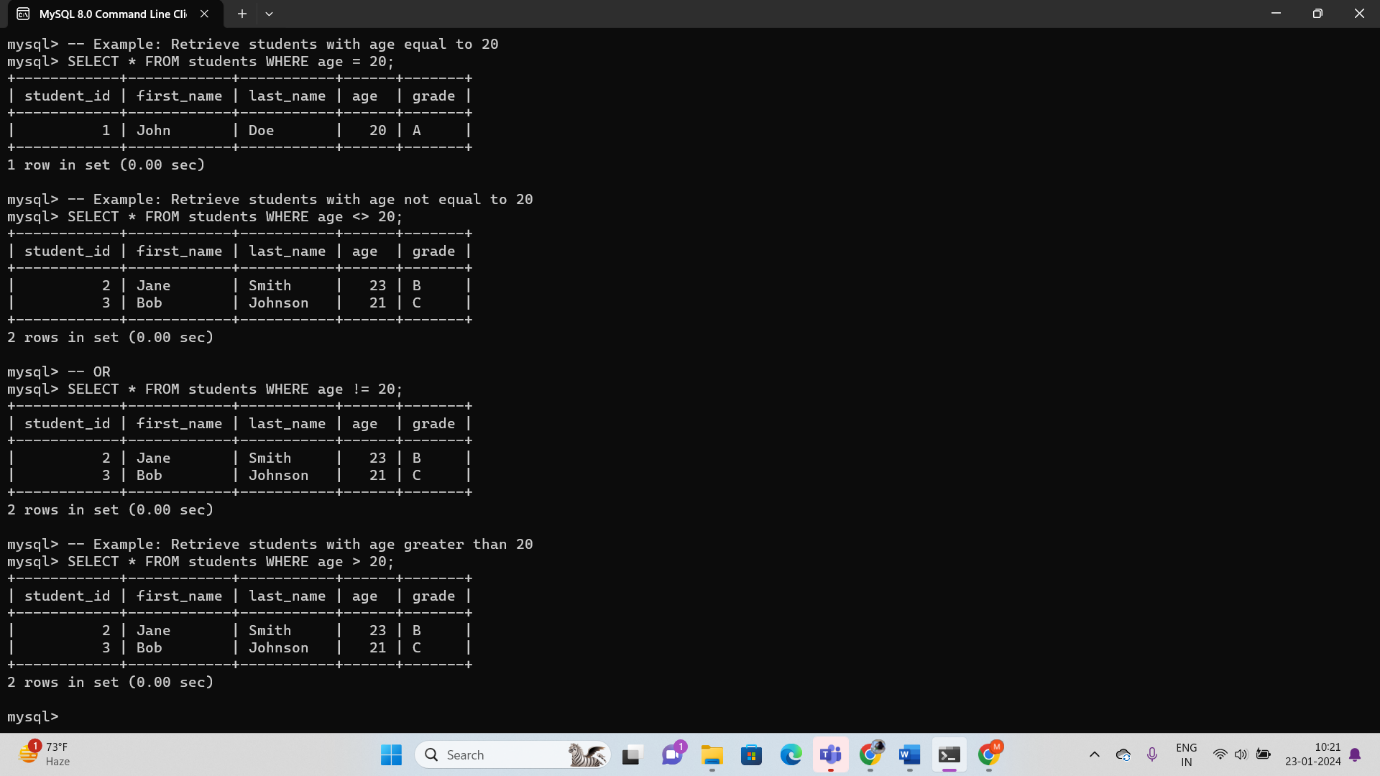
#### **Equal to (=)**



#### **Not equal to (<> or !=)**



#### **Greater than (>)**



### Logical Operators:

### 

**string functions: -**

### Concatenation:

### 

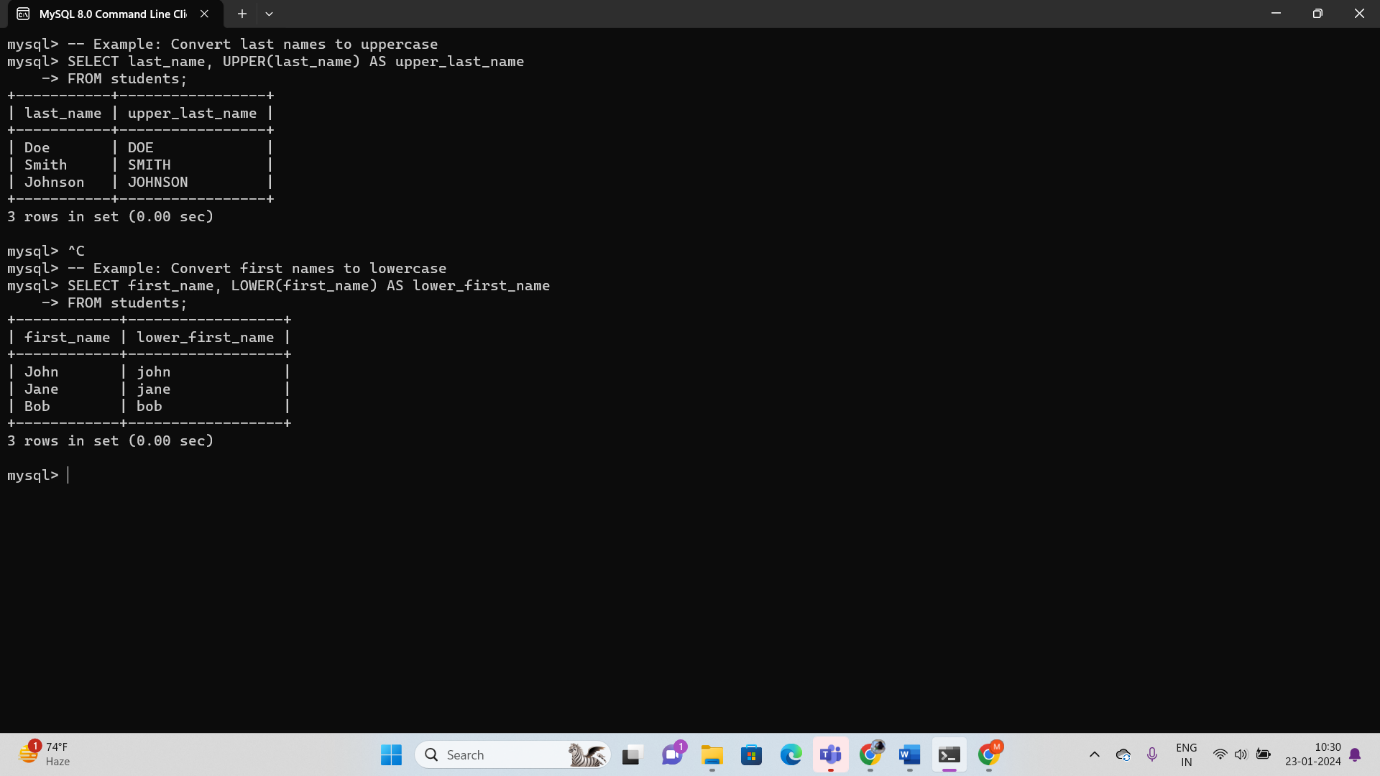
### Length:

#### **Get the length of a string:**

### 

### Upper and Lower:

#### **Convert string to uppercase or lowercase:**



### Replace:

### 