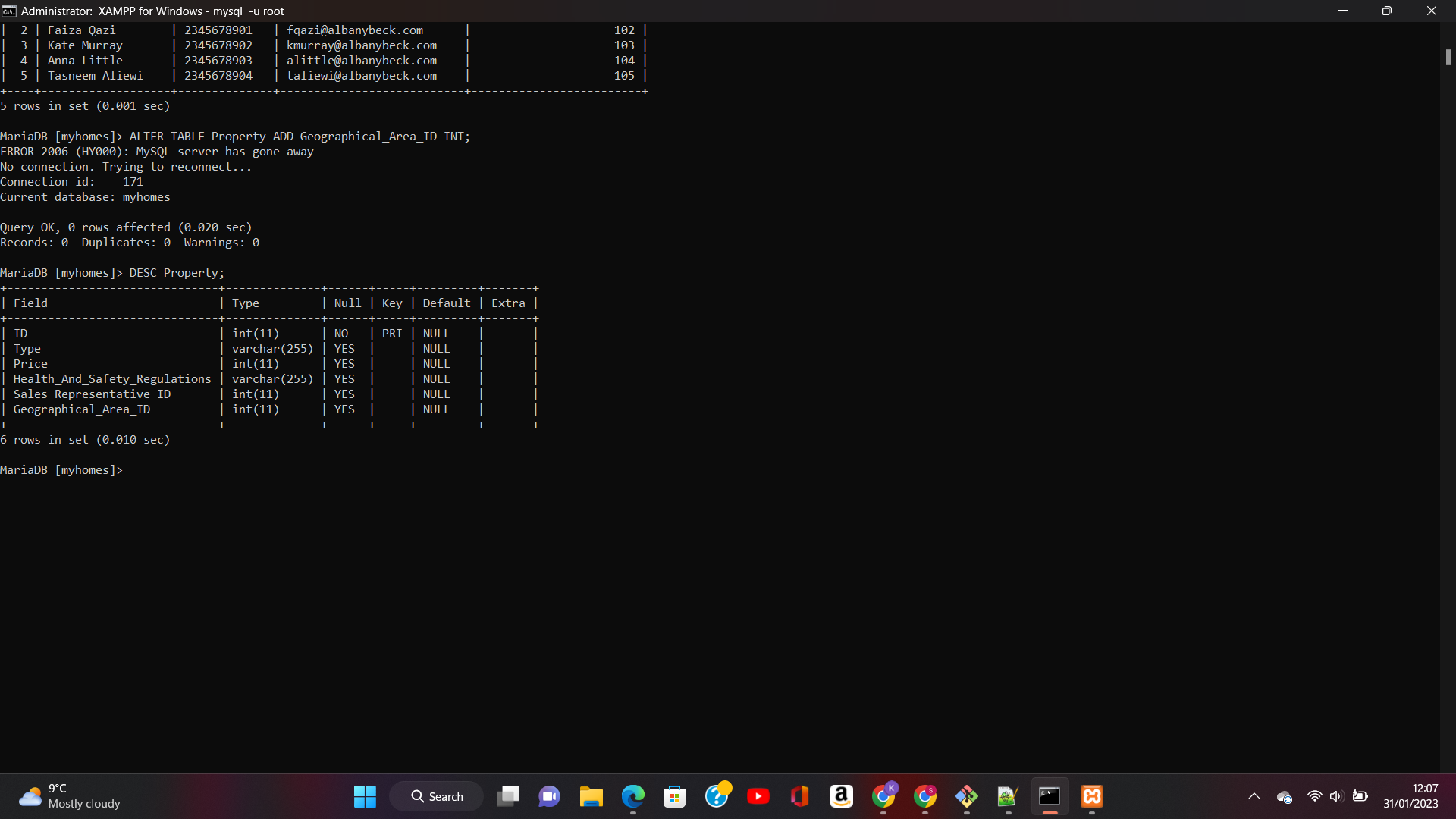
**Roadblocks and Changes**

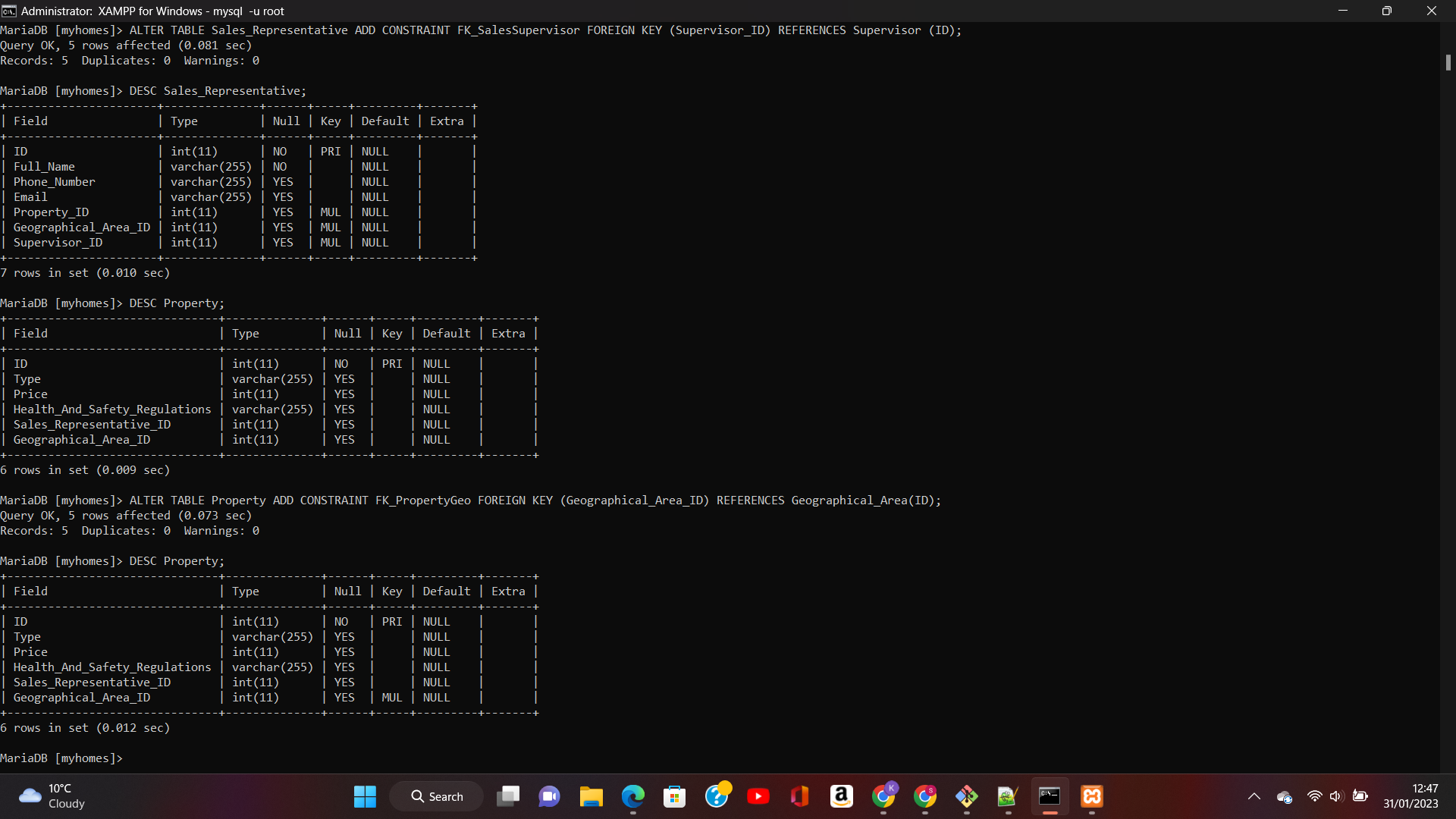
**Problem 1:**

**Changed my conceptual design to add a relationship between the Property entity and Geographical Area entity in order to display the data for the second Query (Part 2 B 2)**

Adding column ‘Geographical Area ID:



Adding Foreign Key Constraint to ‘Geographical Area ID’:

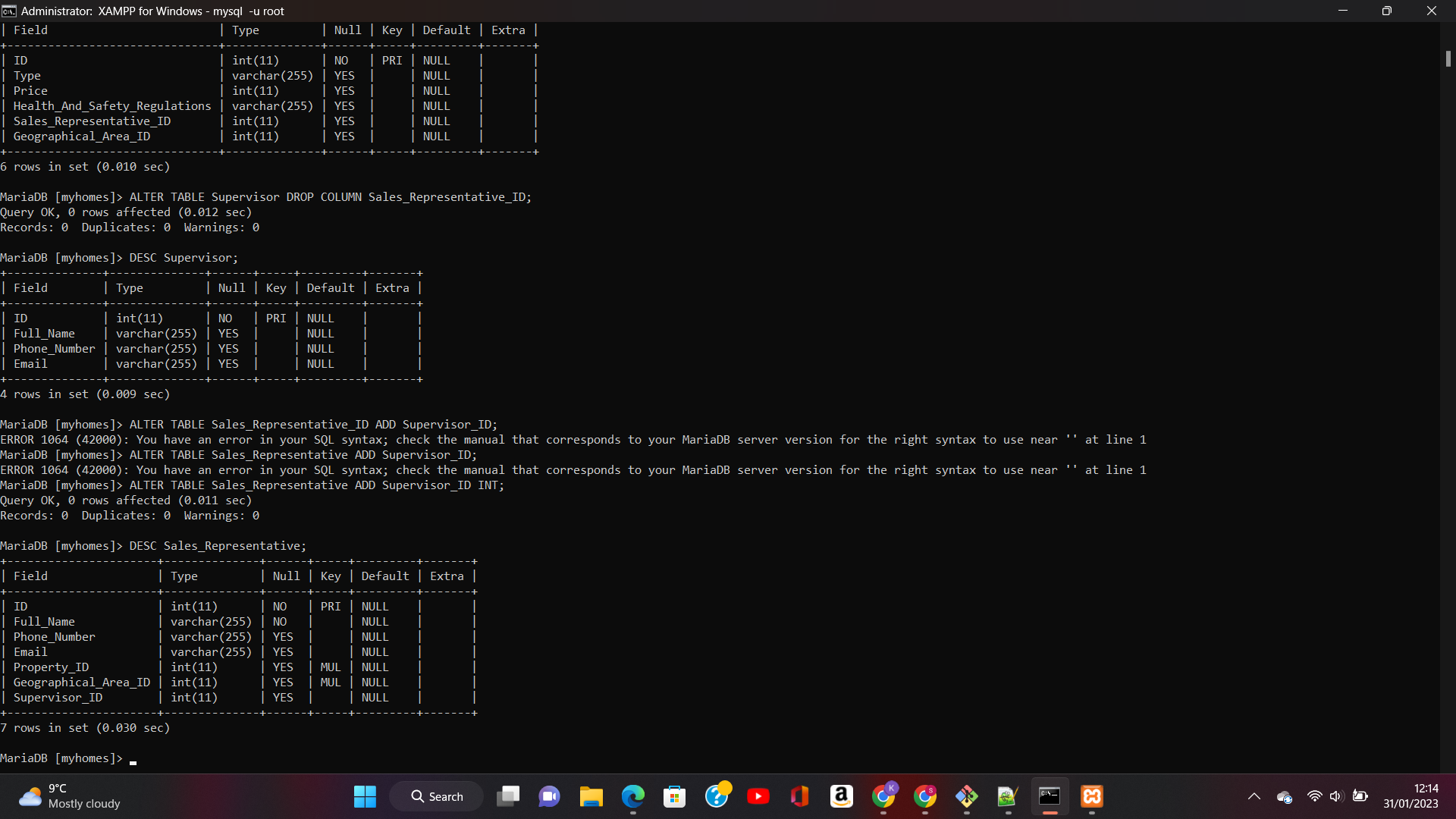


**Problem 2:**

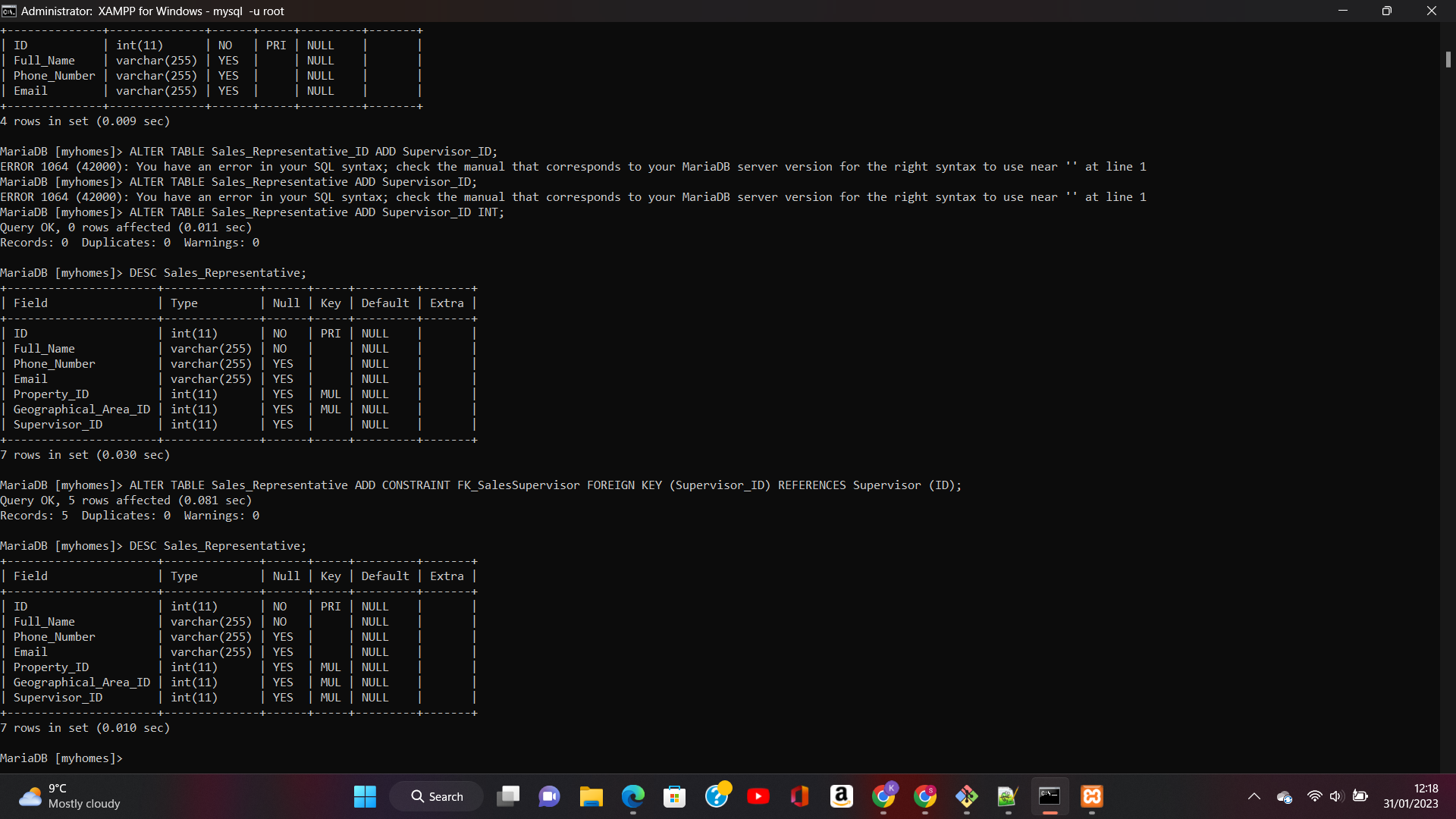
**I realised that having the foreign key constraint ‘sales\_representative’ in the Supervisor table would not work as the supervisor has a one to many relationship with the sales\_representatives entity.**

**Therefore, Instead of having a foreign key for sales\_rep\_id in the supervisor table - I added a supervisor\_id to the sales rep table.**

Adding column ‘Supervisor ID’:



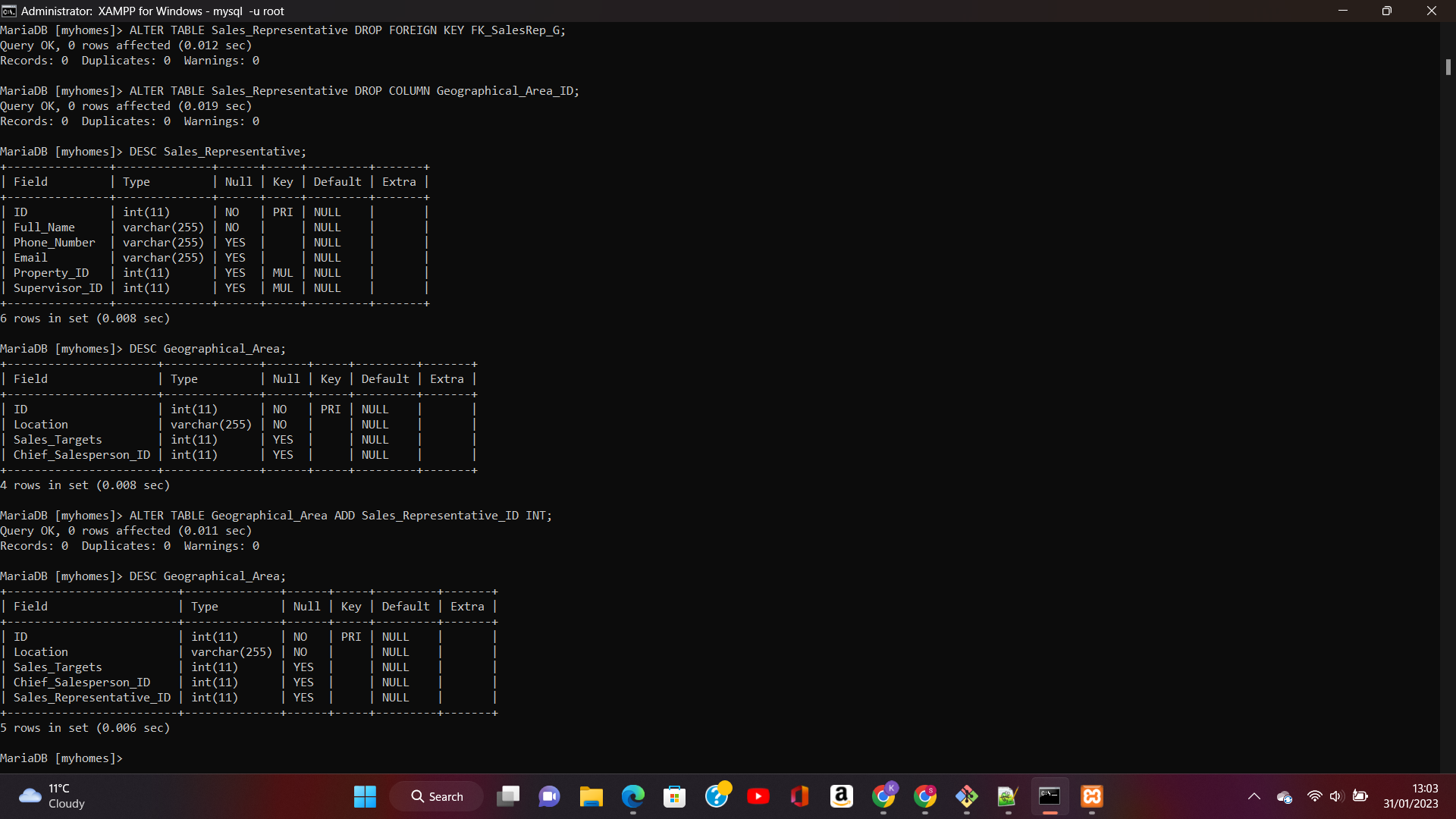
Add Foreign key constraint to ‘Supervisor ID’:



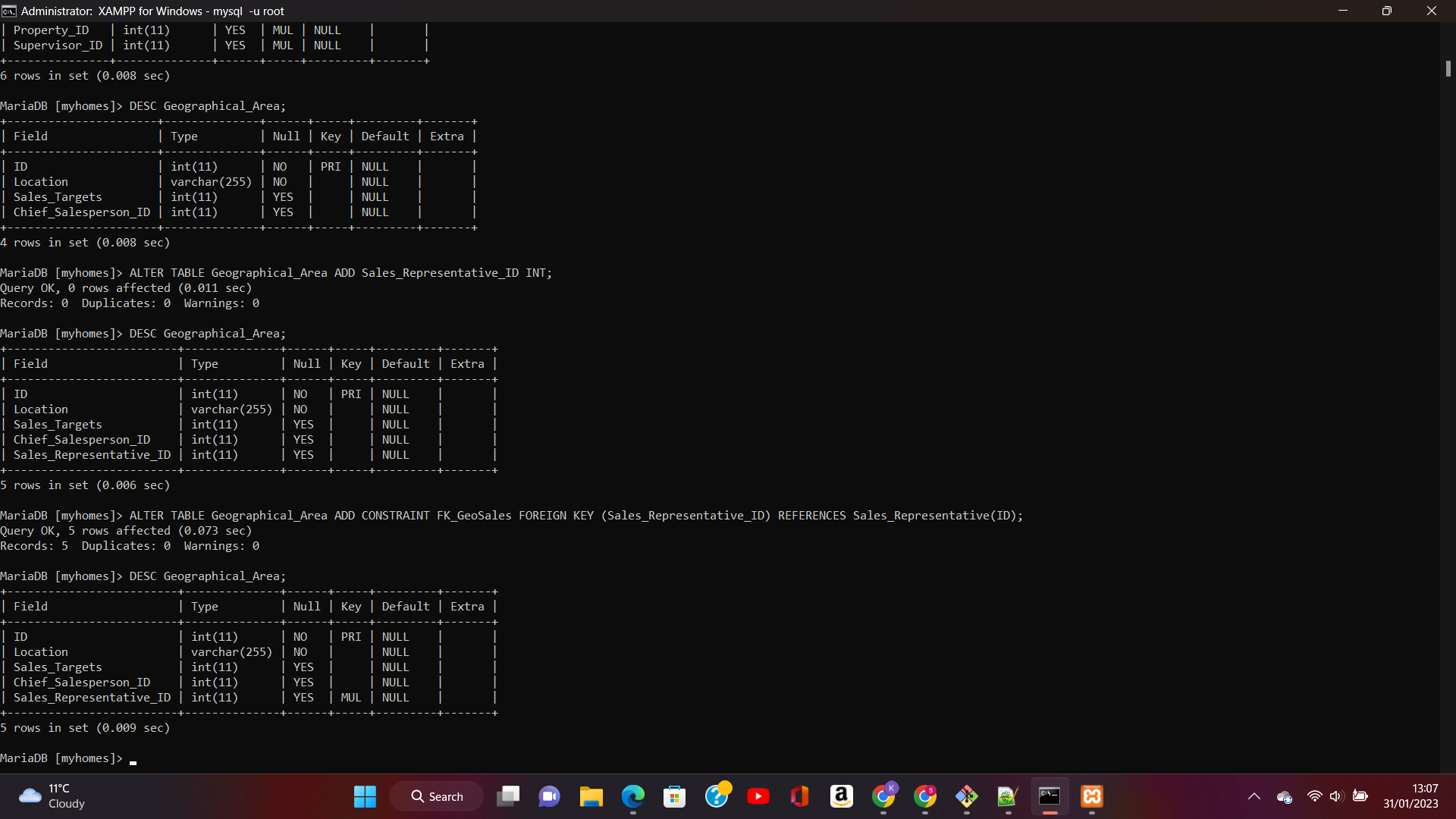
**Problem 3:**

**I realised that the foreign keys added for the relationship between sales rep and geographical area were incorrect. There should be a foreign key (Sales\_Representative\_ID) in the Geographical\_Area table instead.**

Add Sales rep id to geo\_area:

****

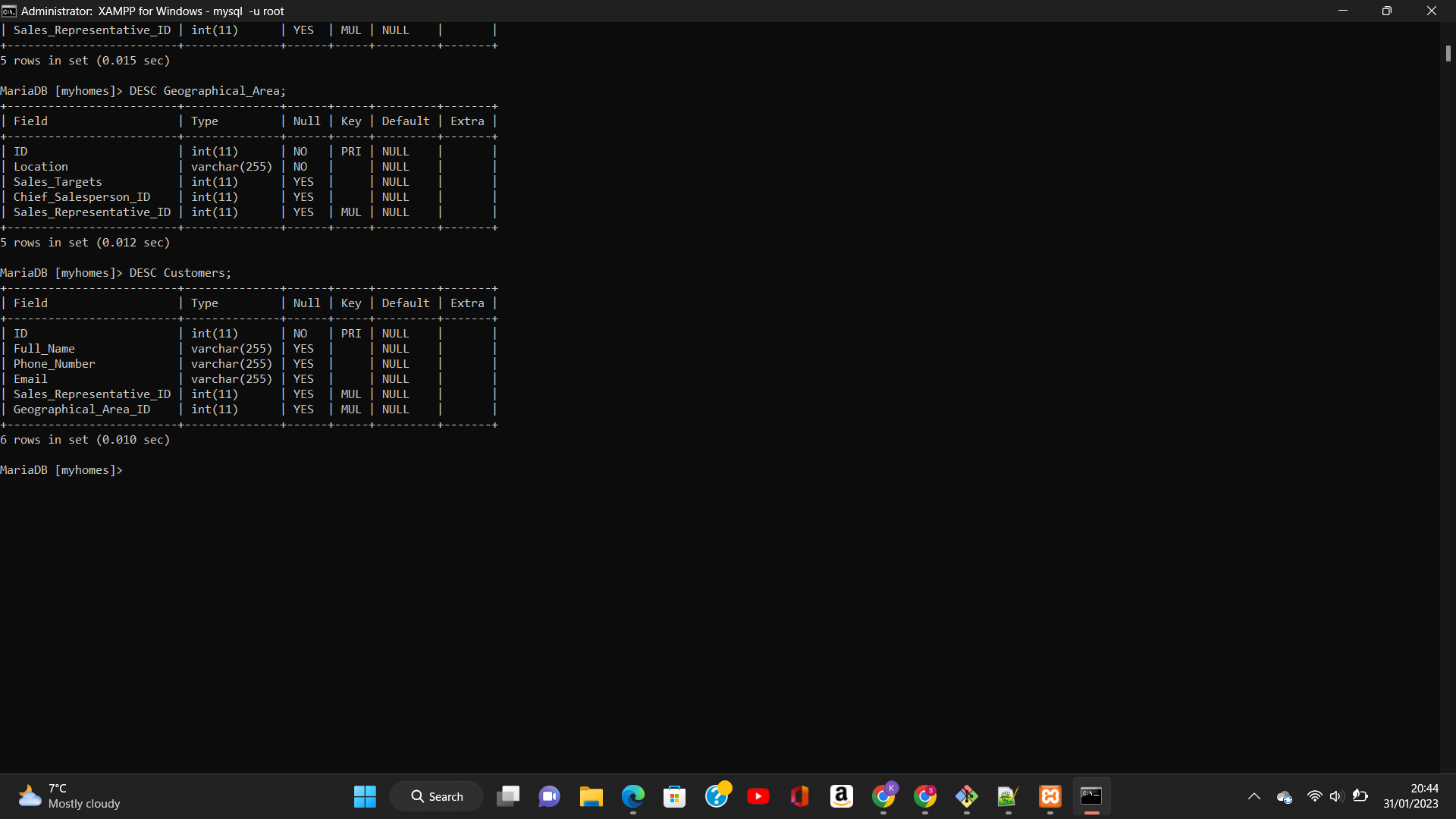
Add constraint (FOREIGN KEY) to SalesRepID:

****

**Problem 4:**

**Since the second query (Part 2 (B) 2)) requires details of customers and with details of the areas - I decided to add a link between the Customers entity and the Geographical\_Area entity, which would allow me to display data from both tables using INNER JOIN.**

Customer table with Geographical\_Area\_ID:

****