**ASSIGNMENT-3**

**ART GALLERY MANAGEMENT DATABASE MANAGEMENT SYSTEM**

**SUBMITTED BY**

-DEEKSHITHA R PES2UG19CS104

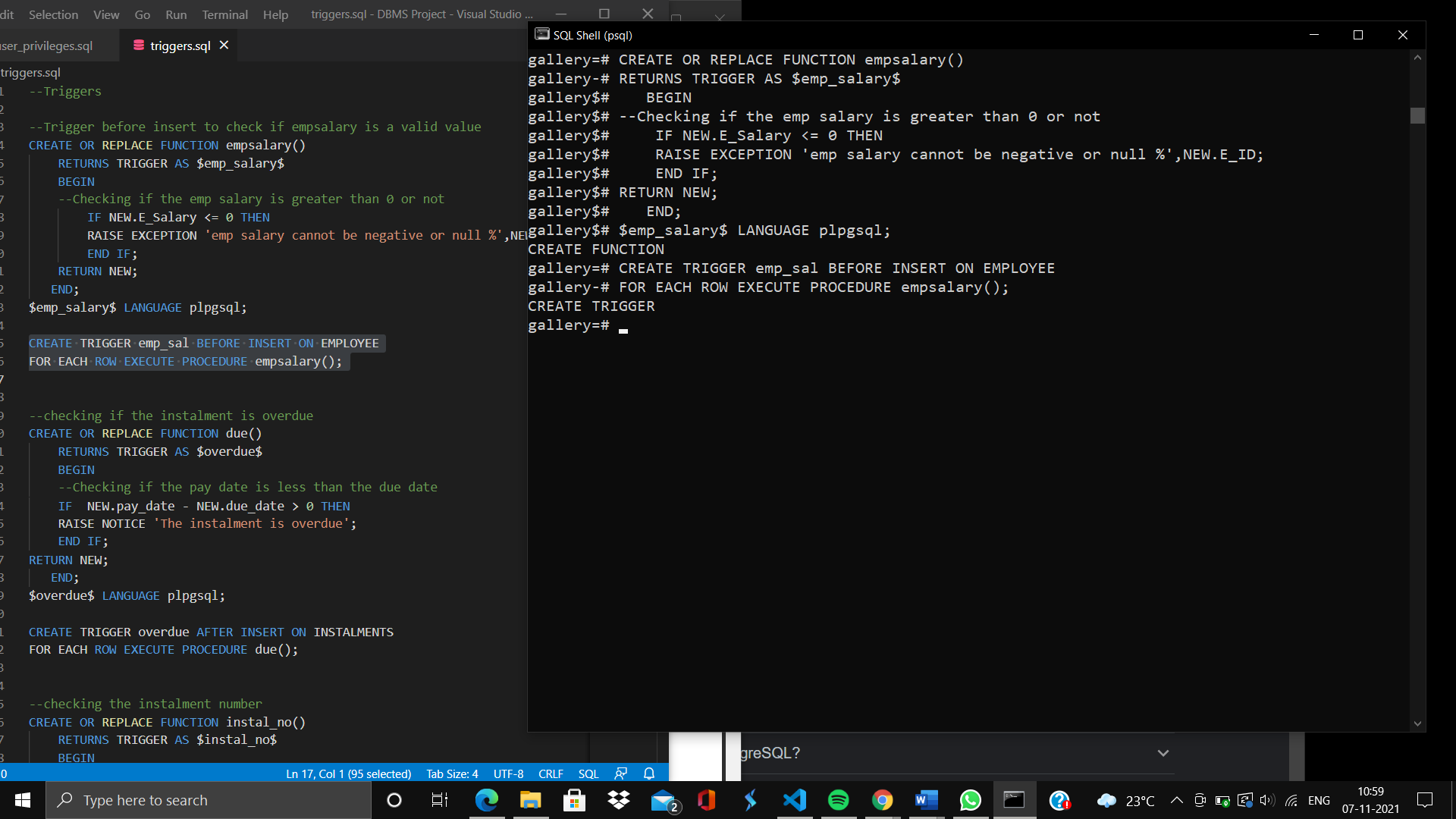
-DEEPA SHREE C V PES2UG19CS105

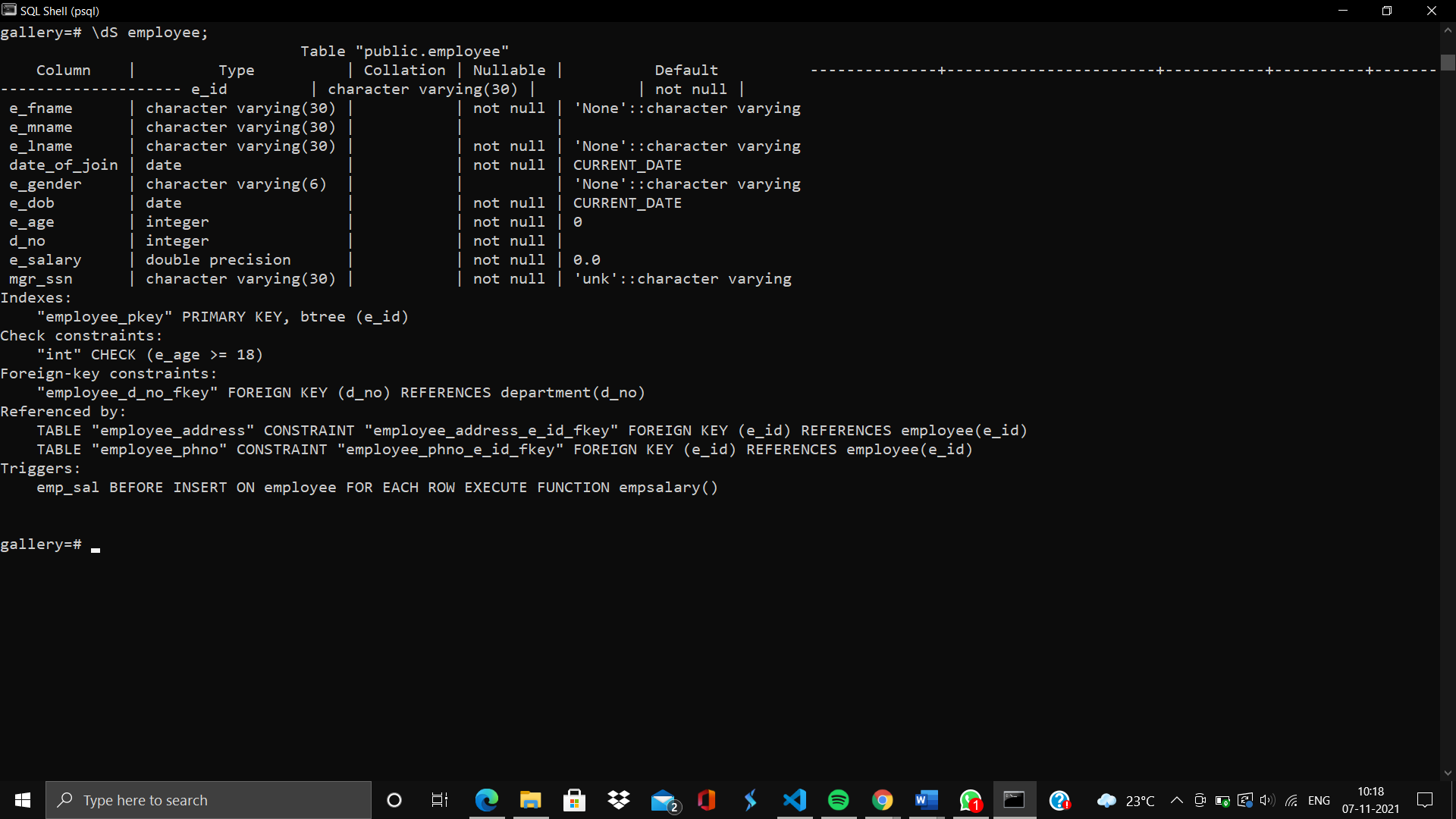
**Department of Computer Science and Engineering**

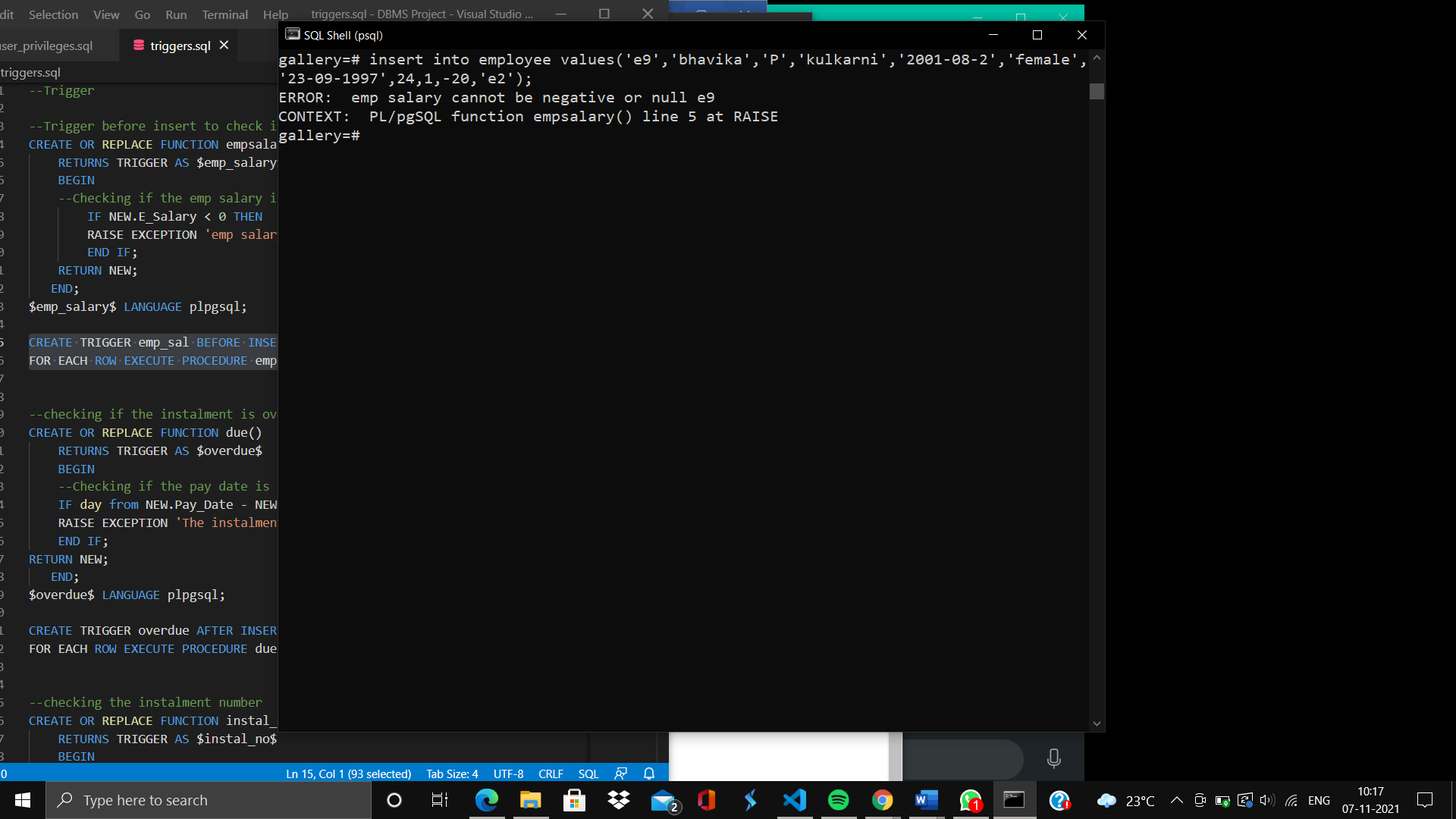
**PES UNIVERSITY**

**Triggers:**

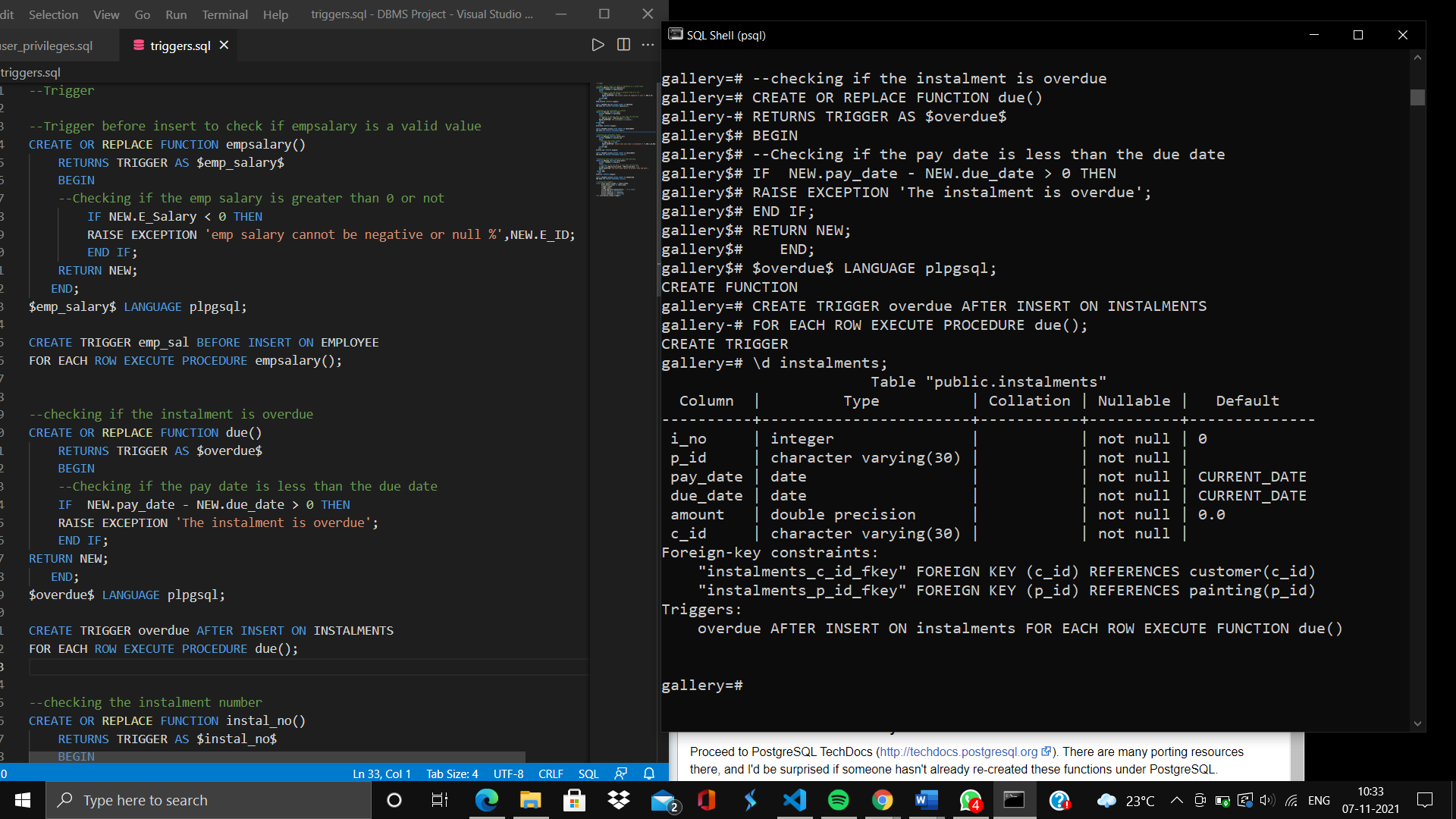
1. **A trigger to ensure the salary of the employee is a valid number**



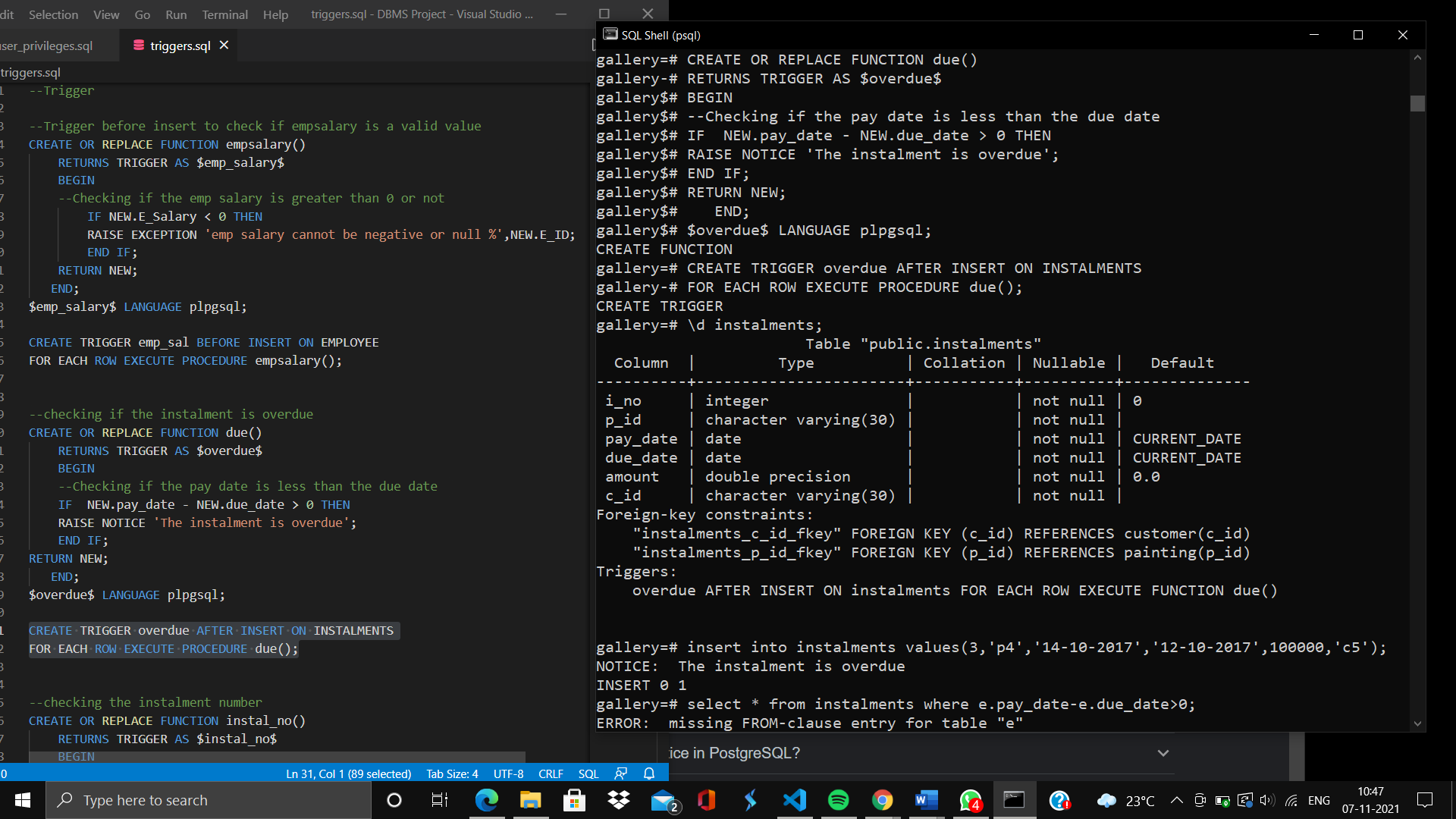


**On inserting -20 as the salary, the trigger is aroused.**

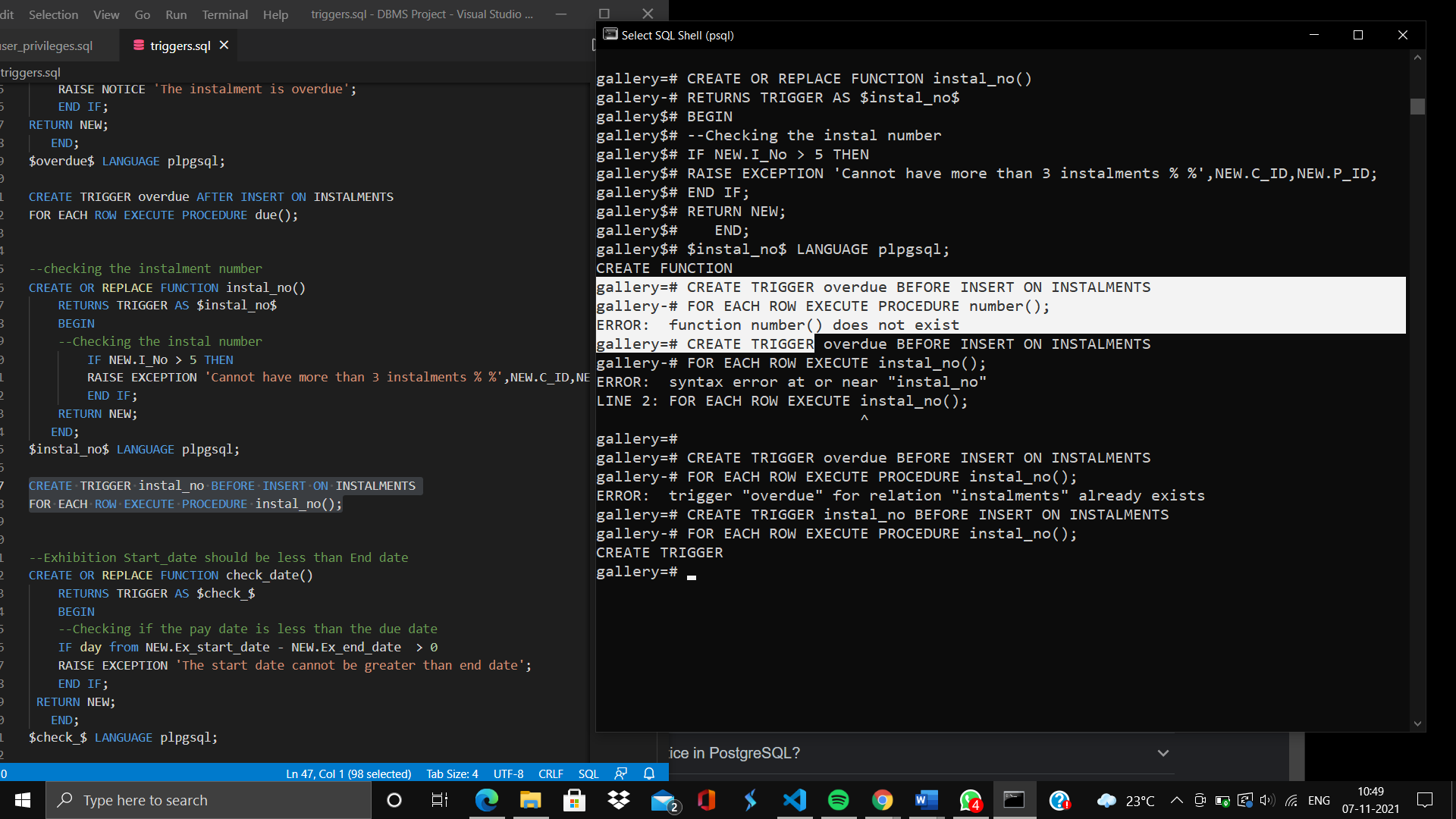
1. **To raise a notice when the payment is overdue**

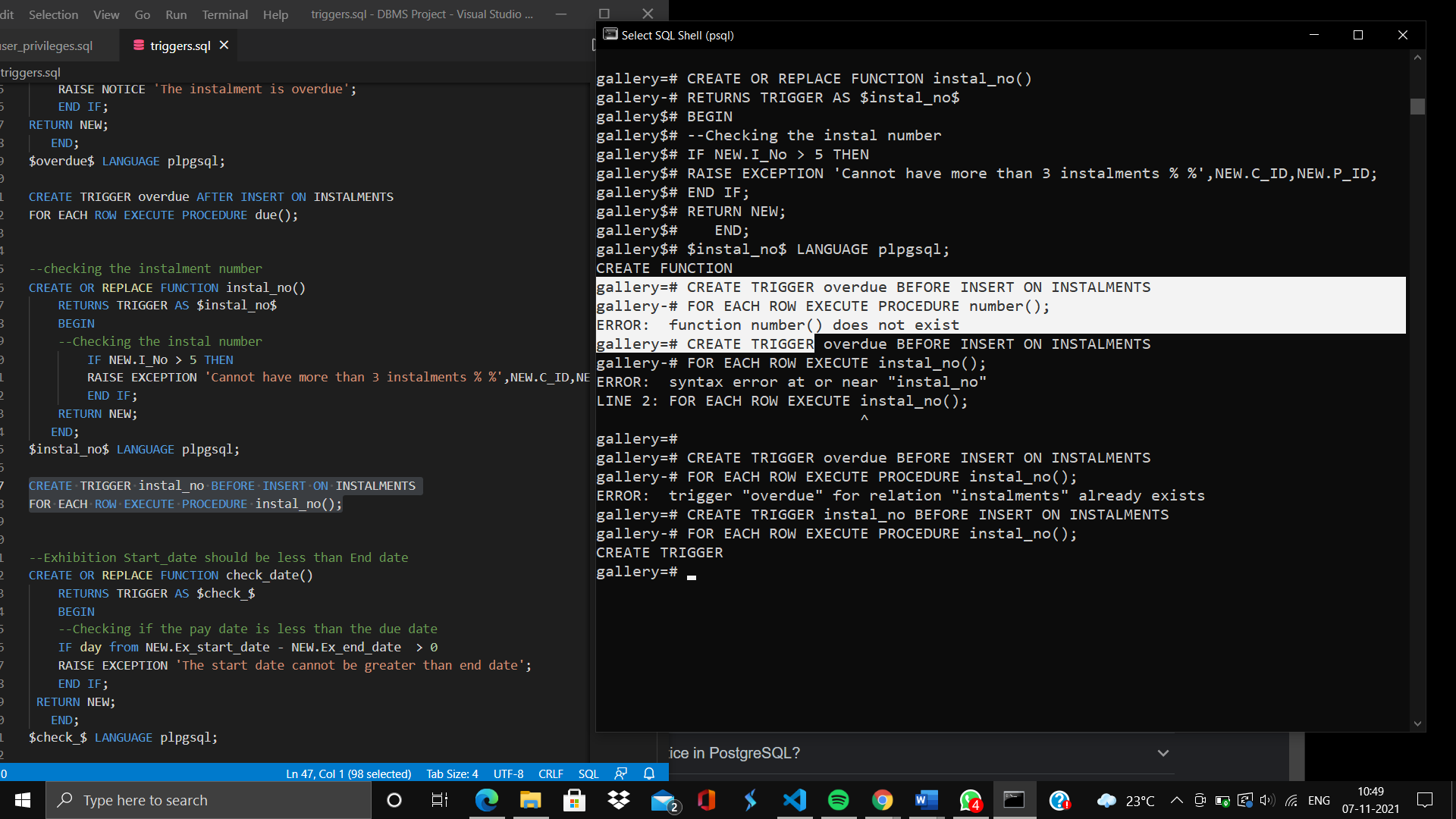


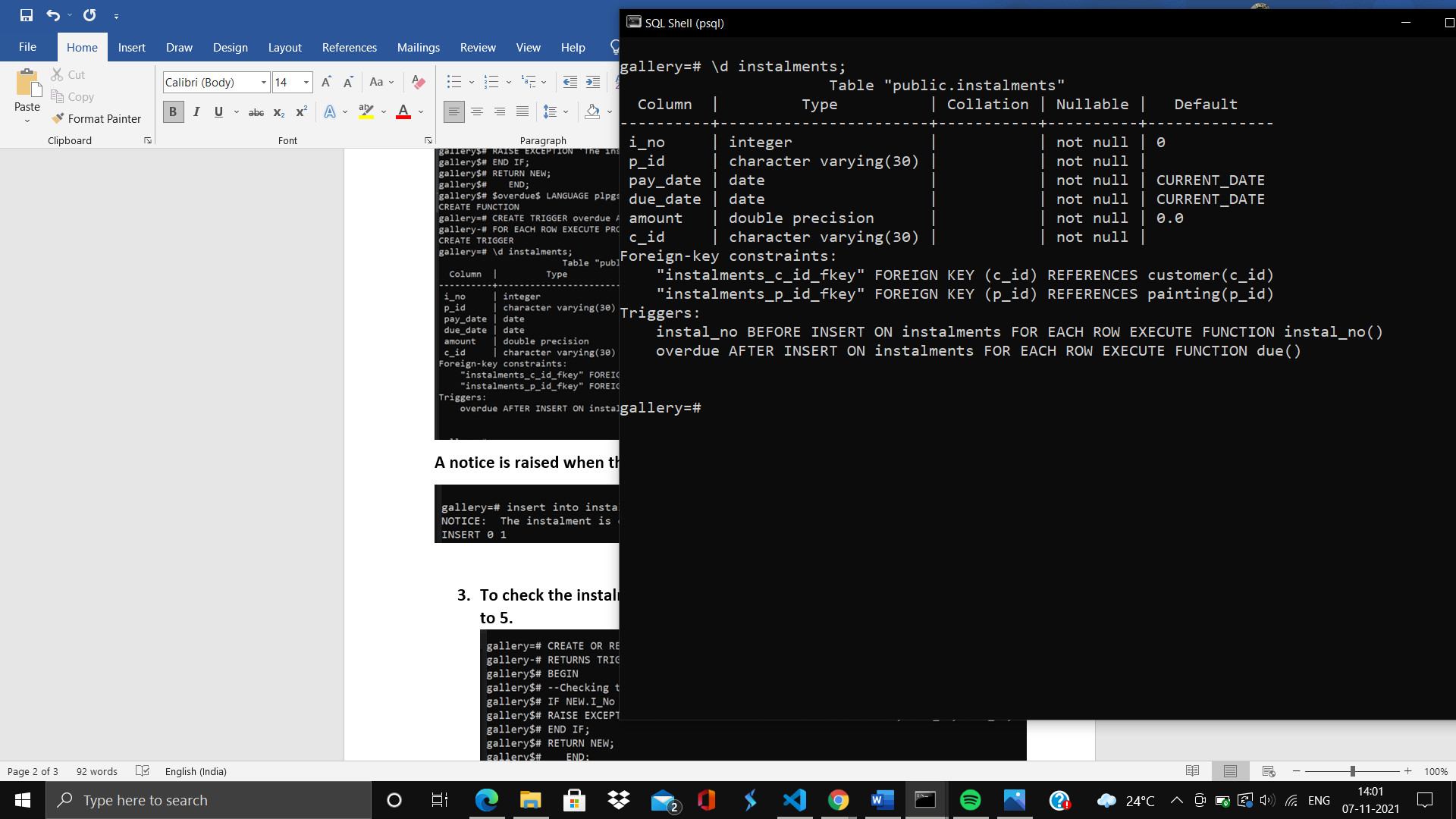
**A notice is raised when the due date is greater than the pay date**



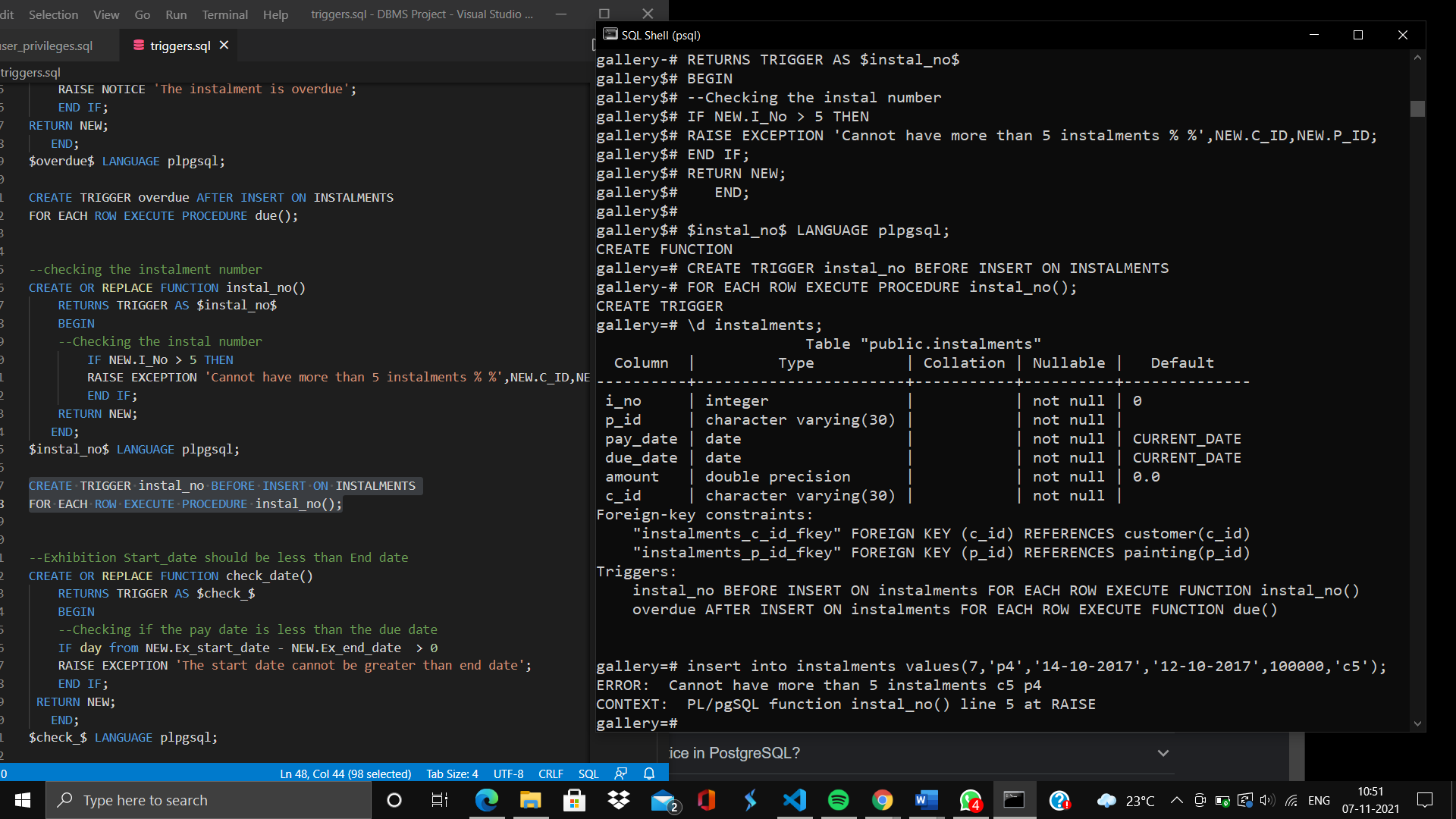
1. **To check the instalment number. It should always be less than or equal to 5.**

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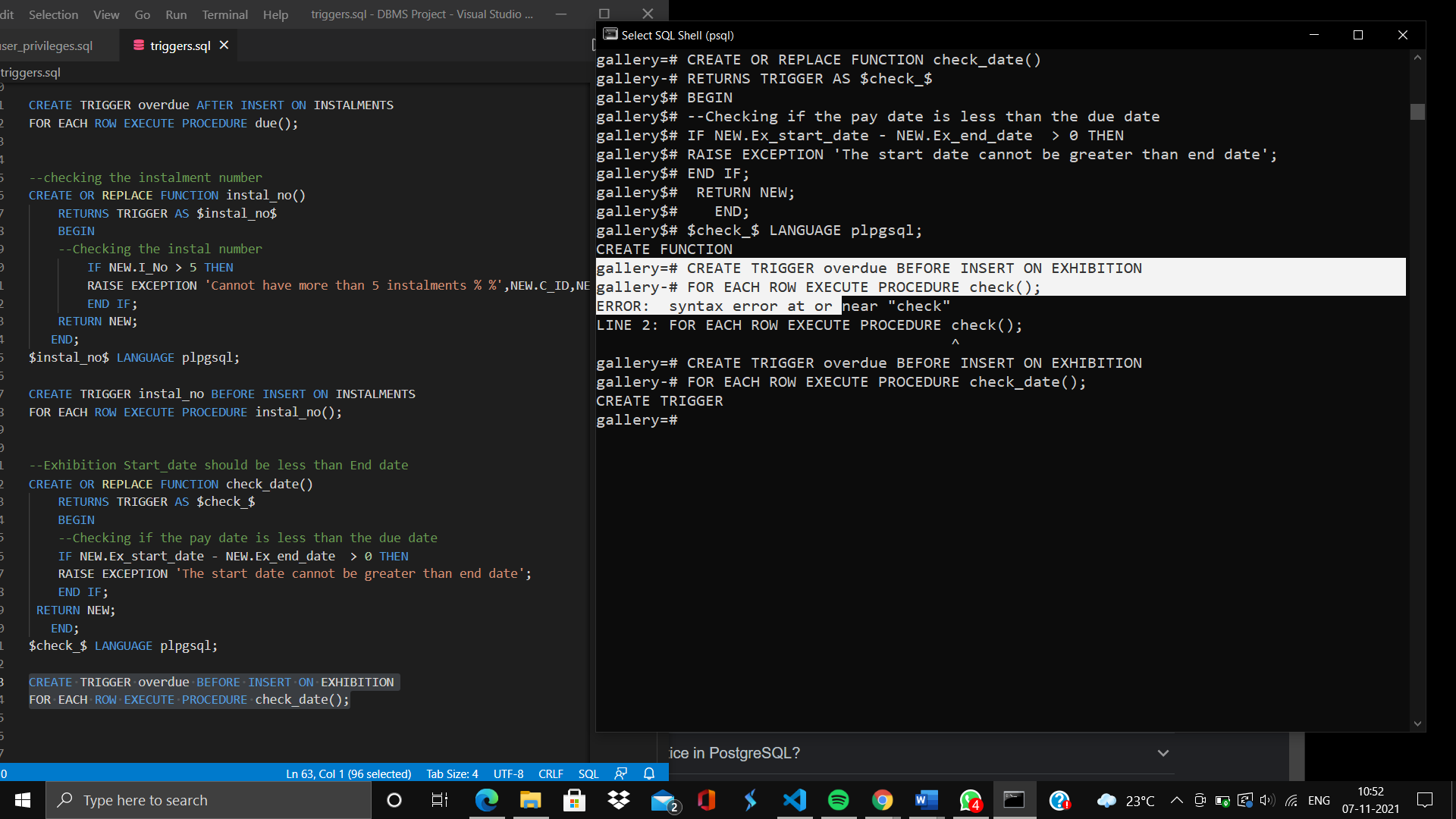
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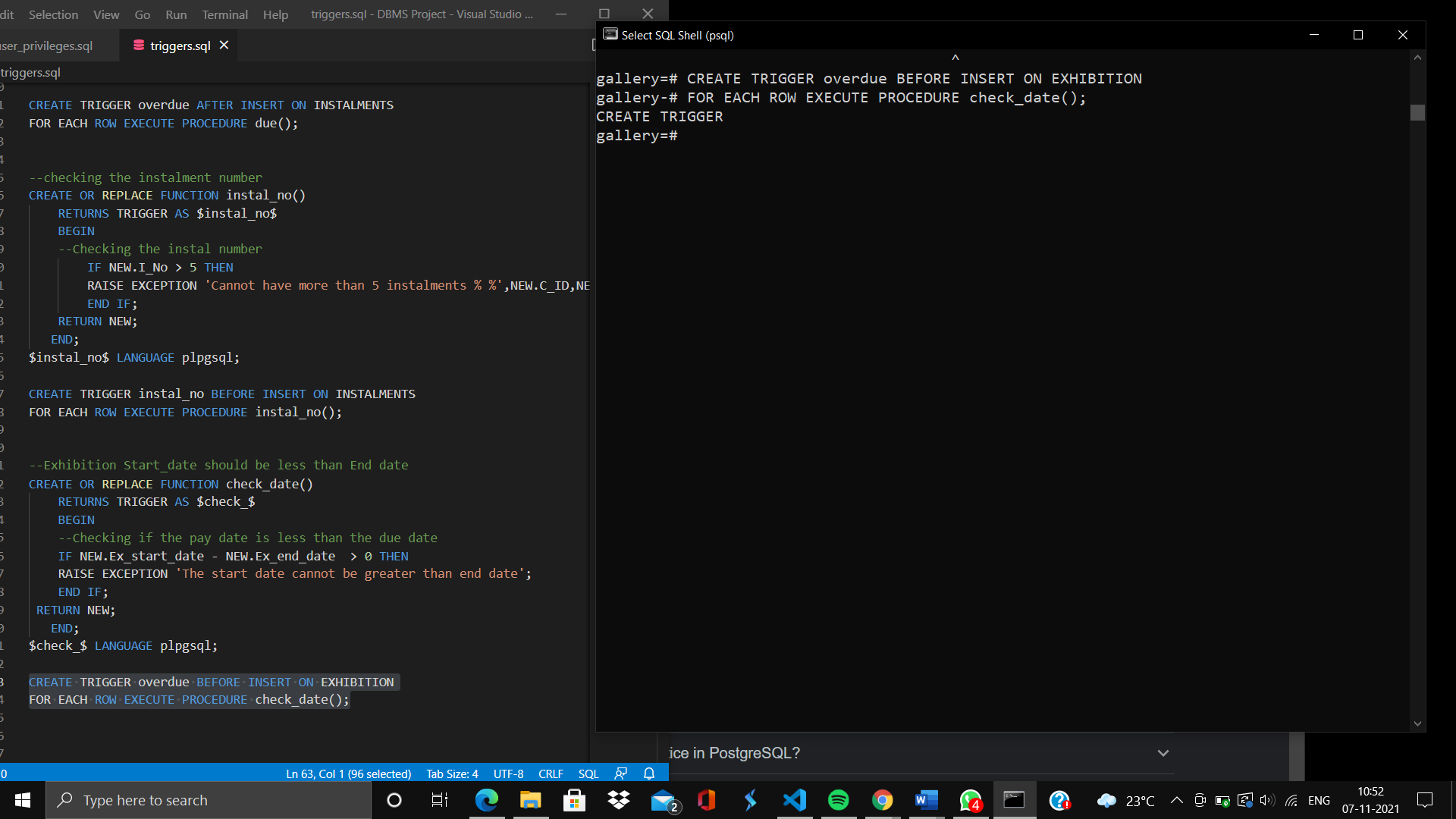
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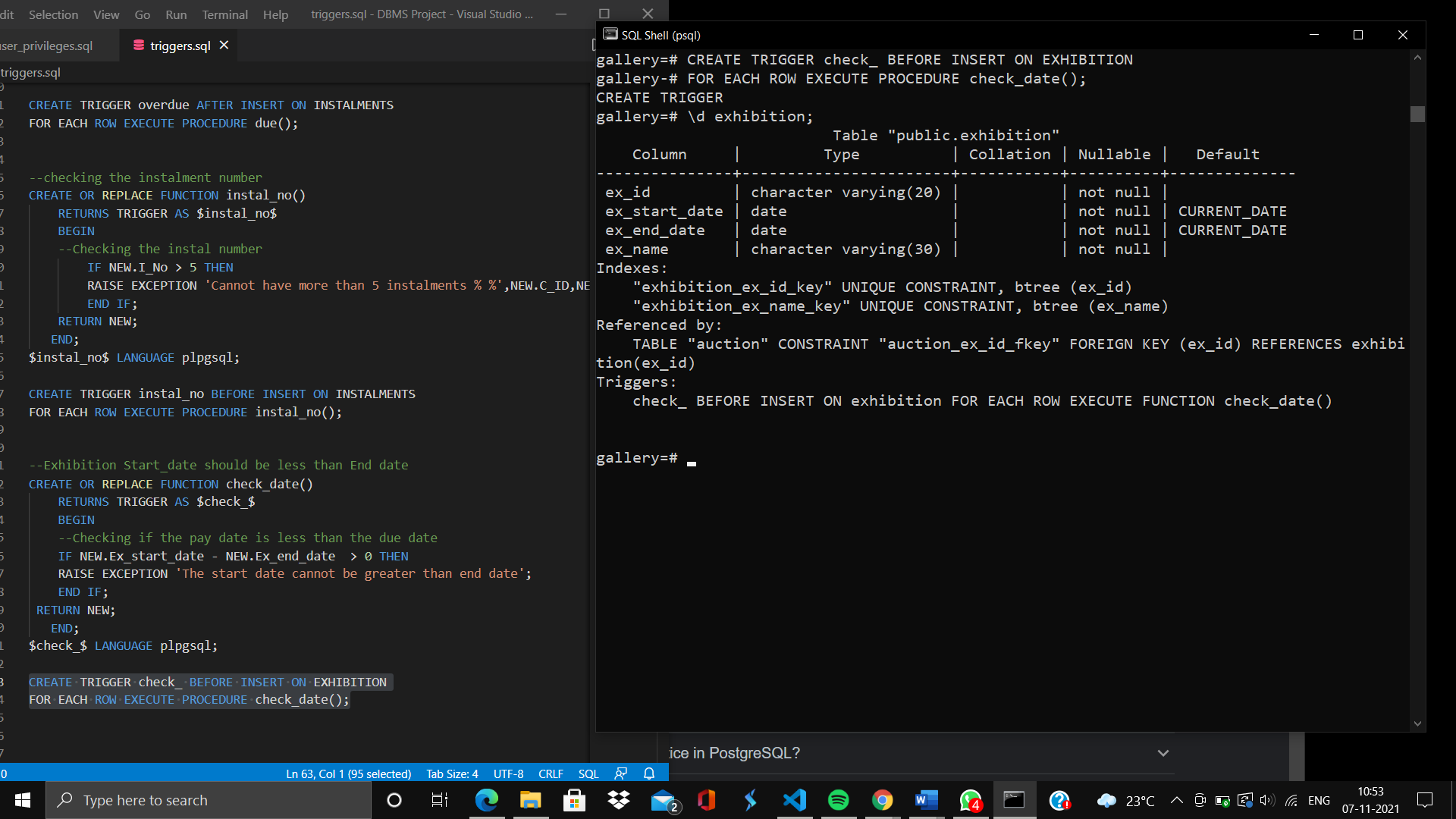
**An exception is raised when the instalment number is 7**

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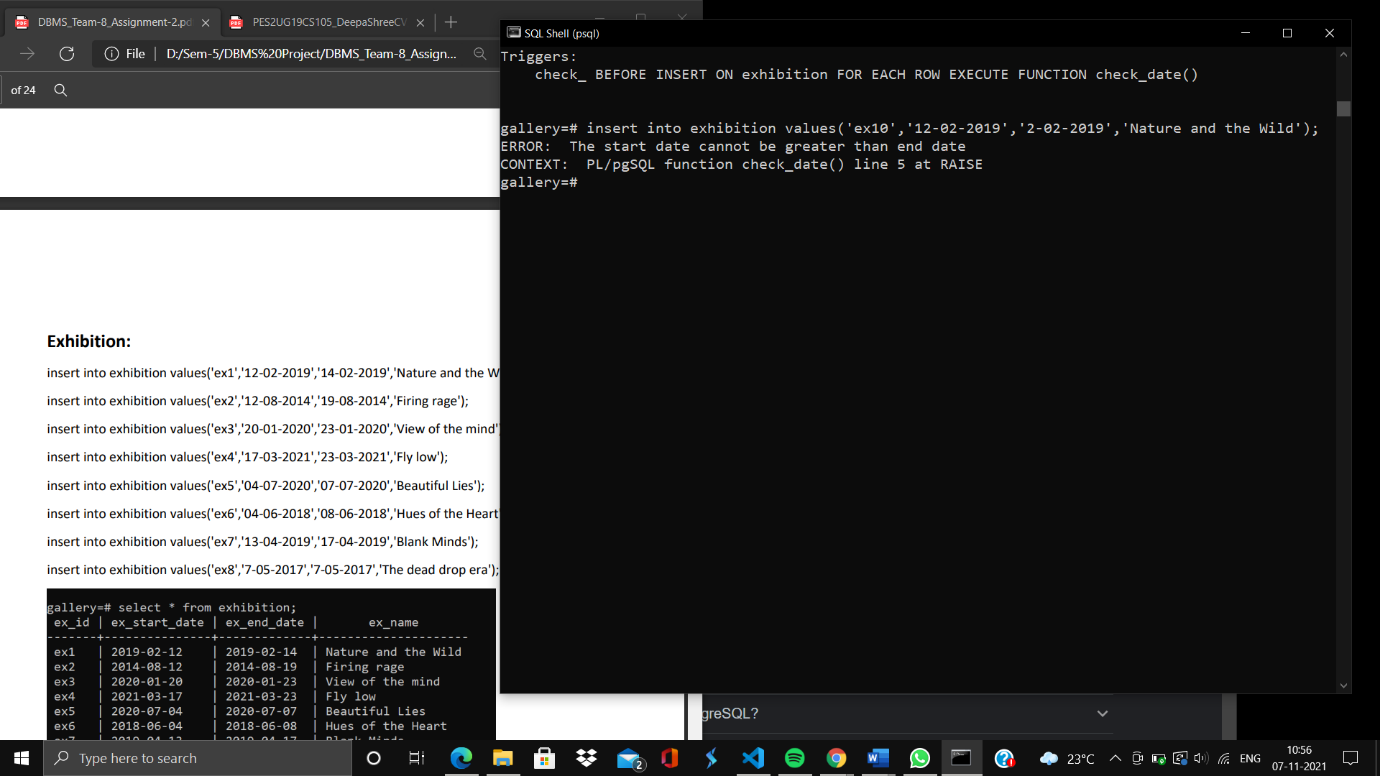
1. **A trigger to check the start date is less than the end date of the exhibition**

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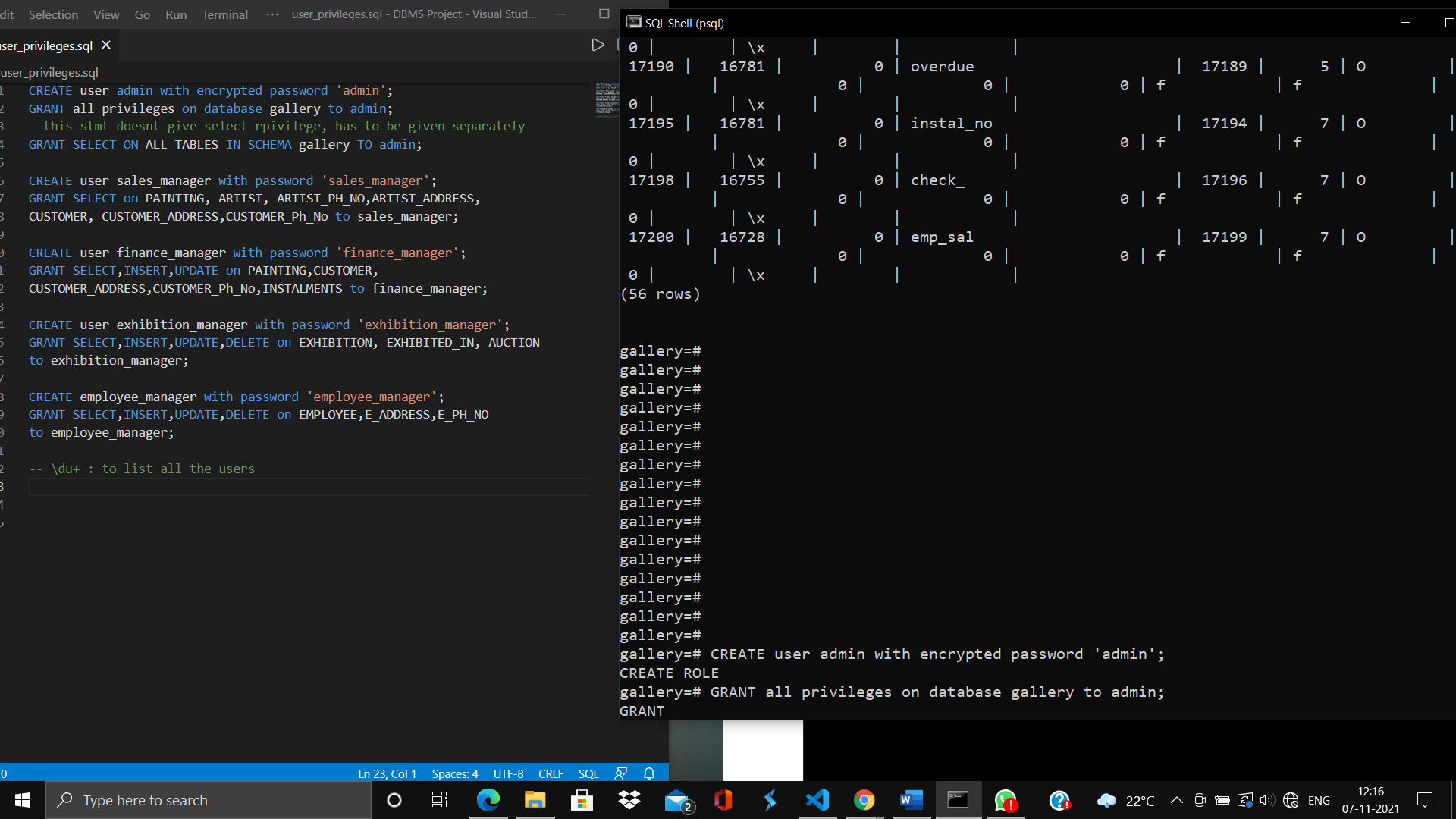
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**An exception is raised on inserting a start date greater than end date**

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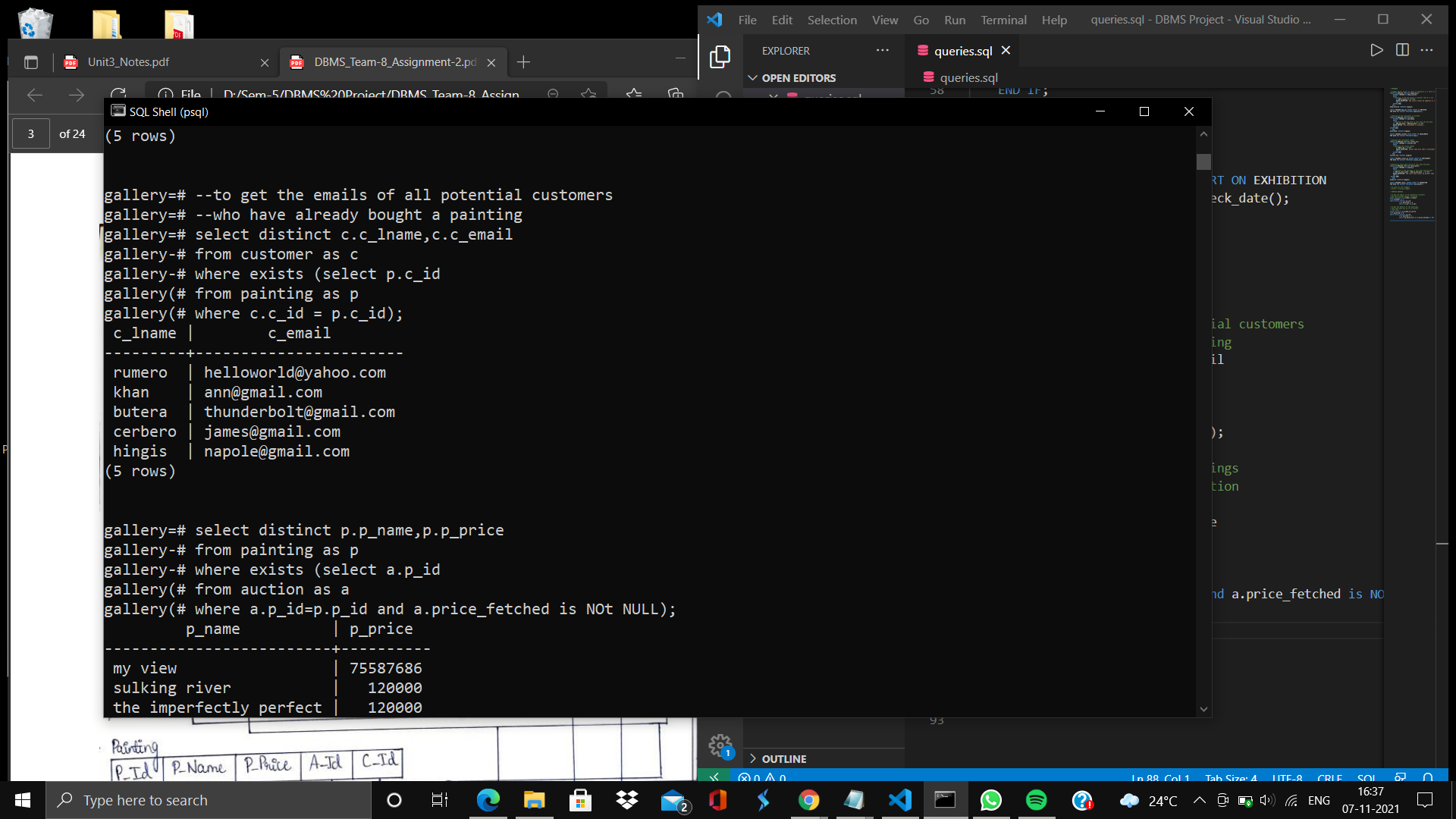
**A list of all the four triggers that are implemented.**

* overdue
* instal\_no
* check\_
* emp\_sal

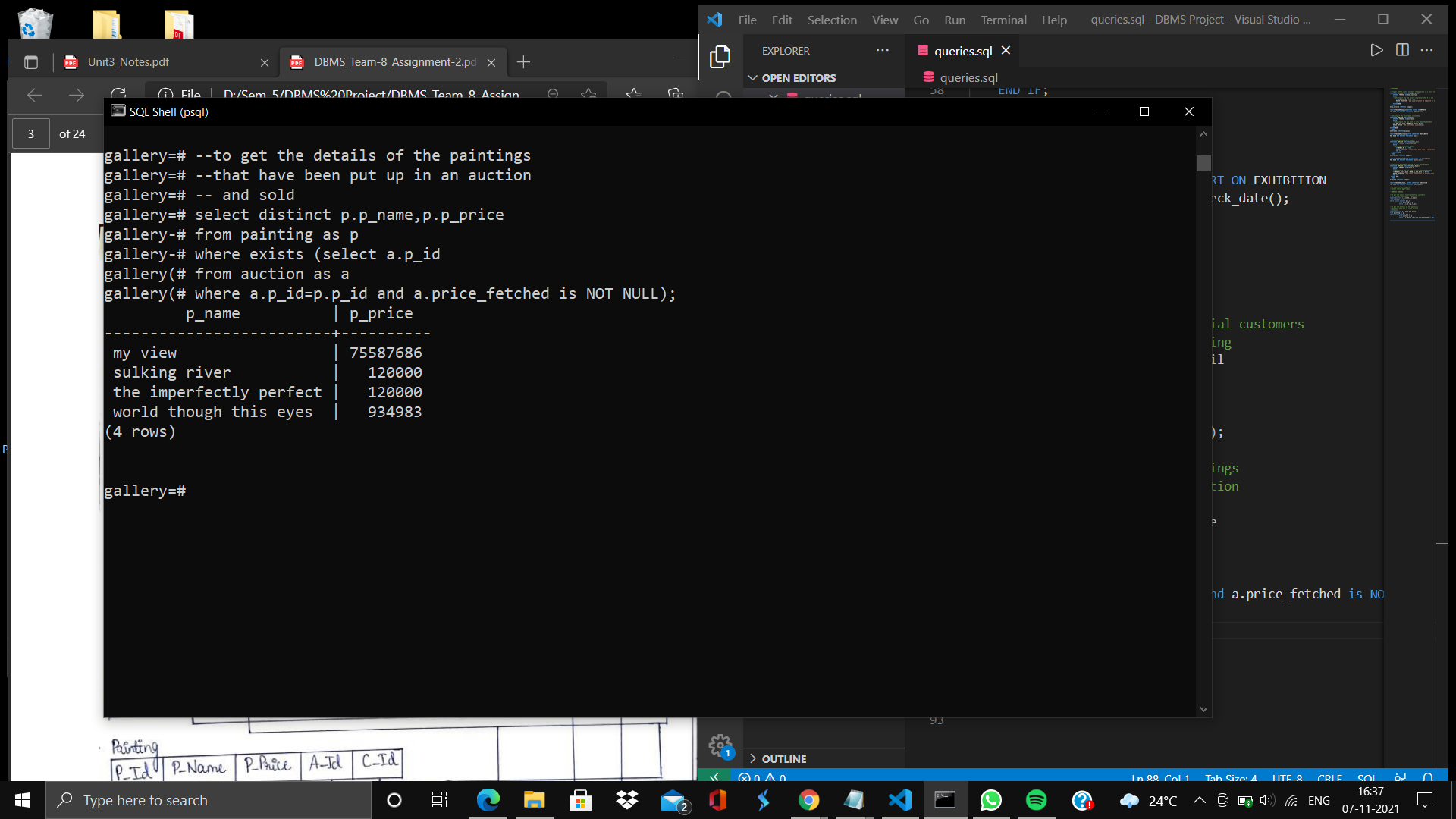
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**Queries:**

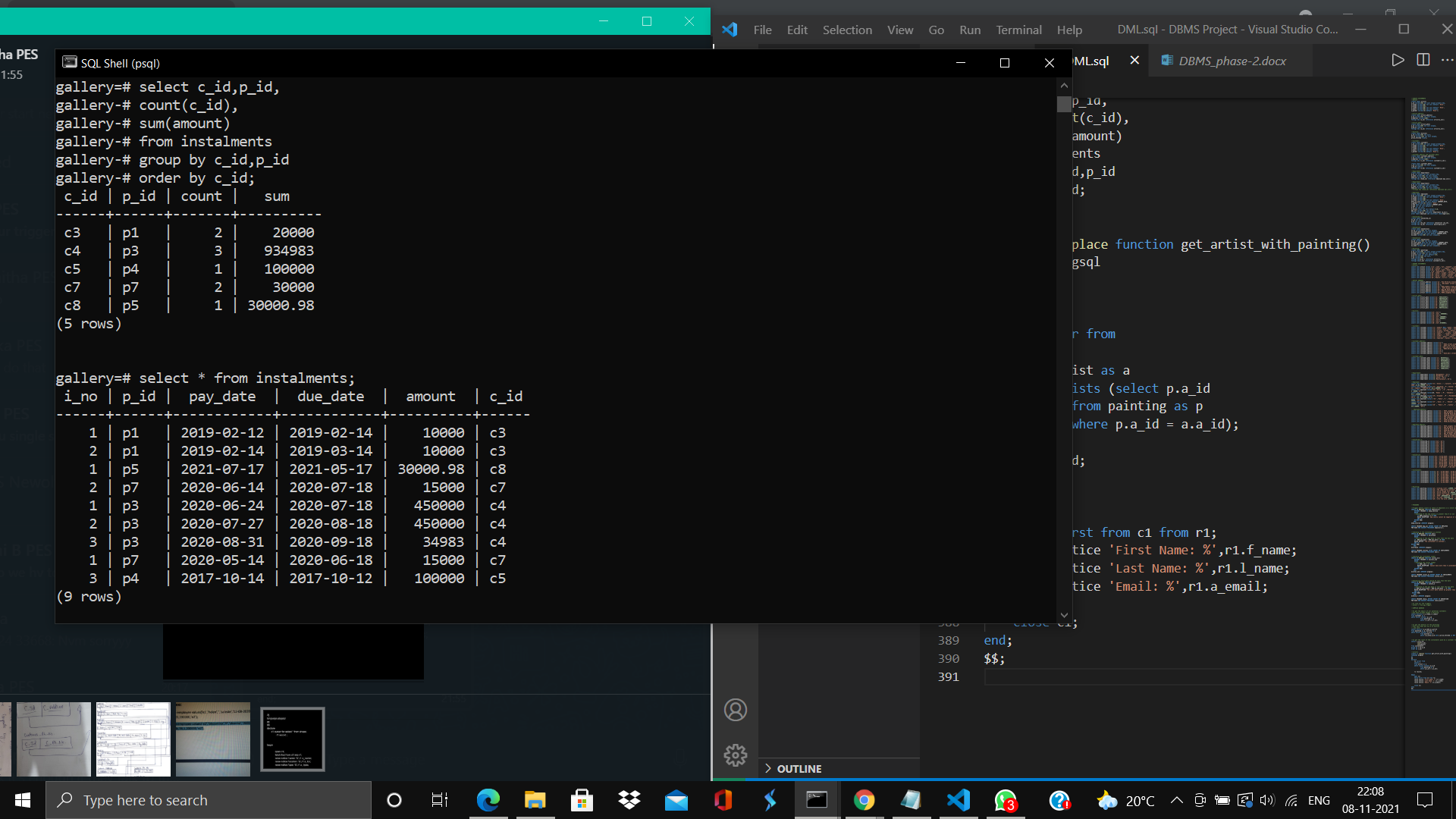
1. **Obtain the last name and the email of all the customers who have bought at least one painting.**

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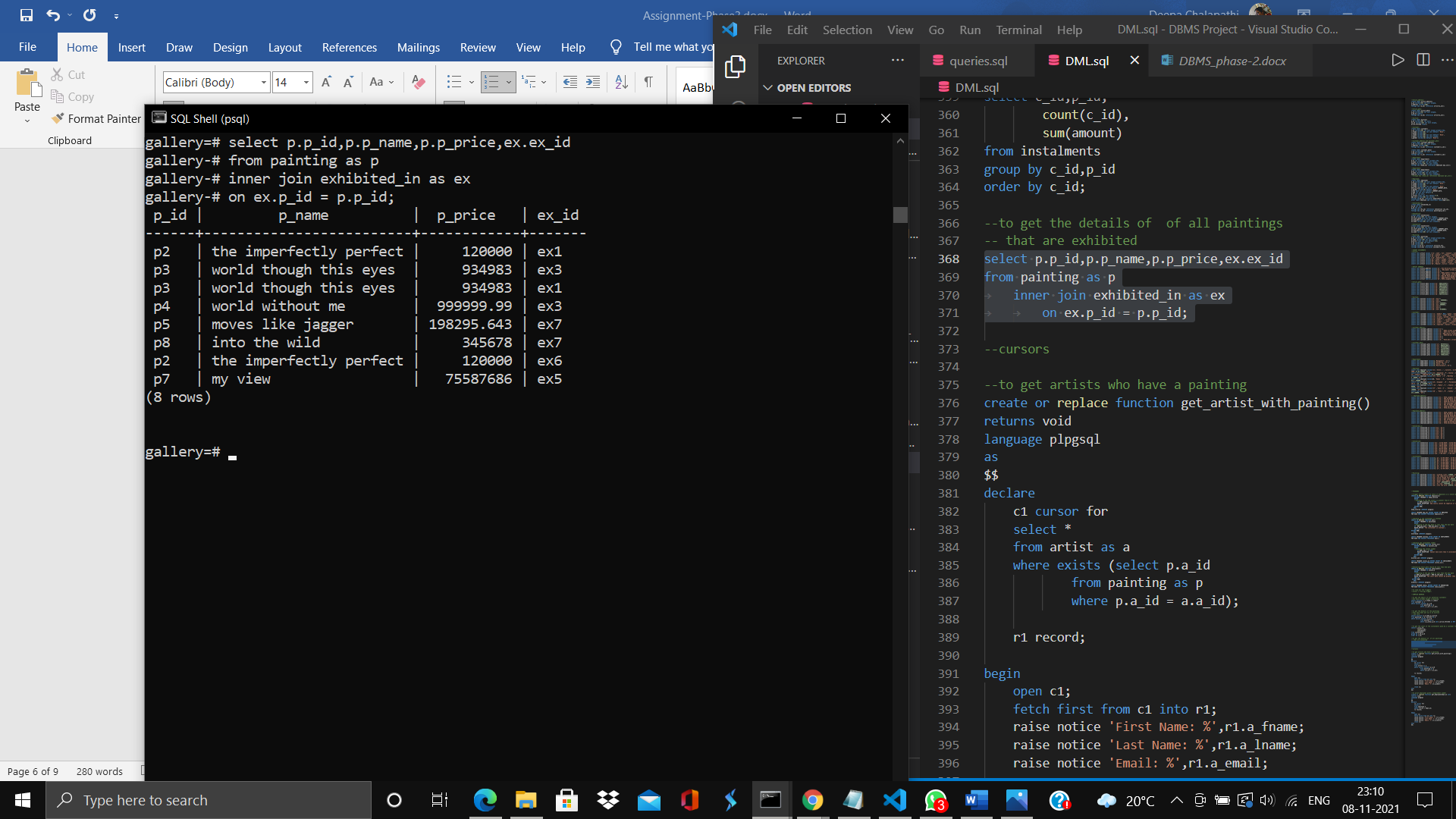
1. **To get the details of all the paintings that have been sold in auction**

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1. **To get the number of instalments and the total amount of of each customer**

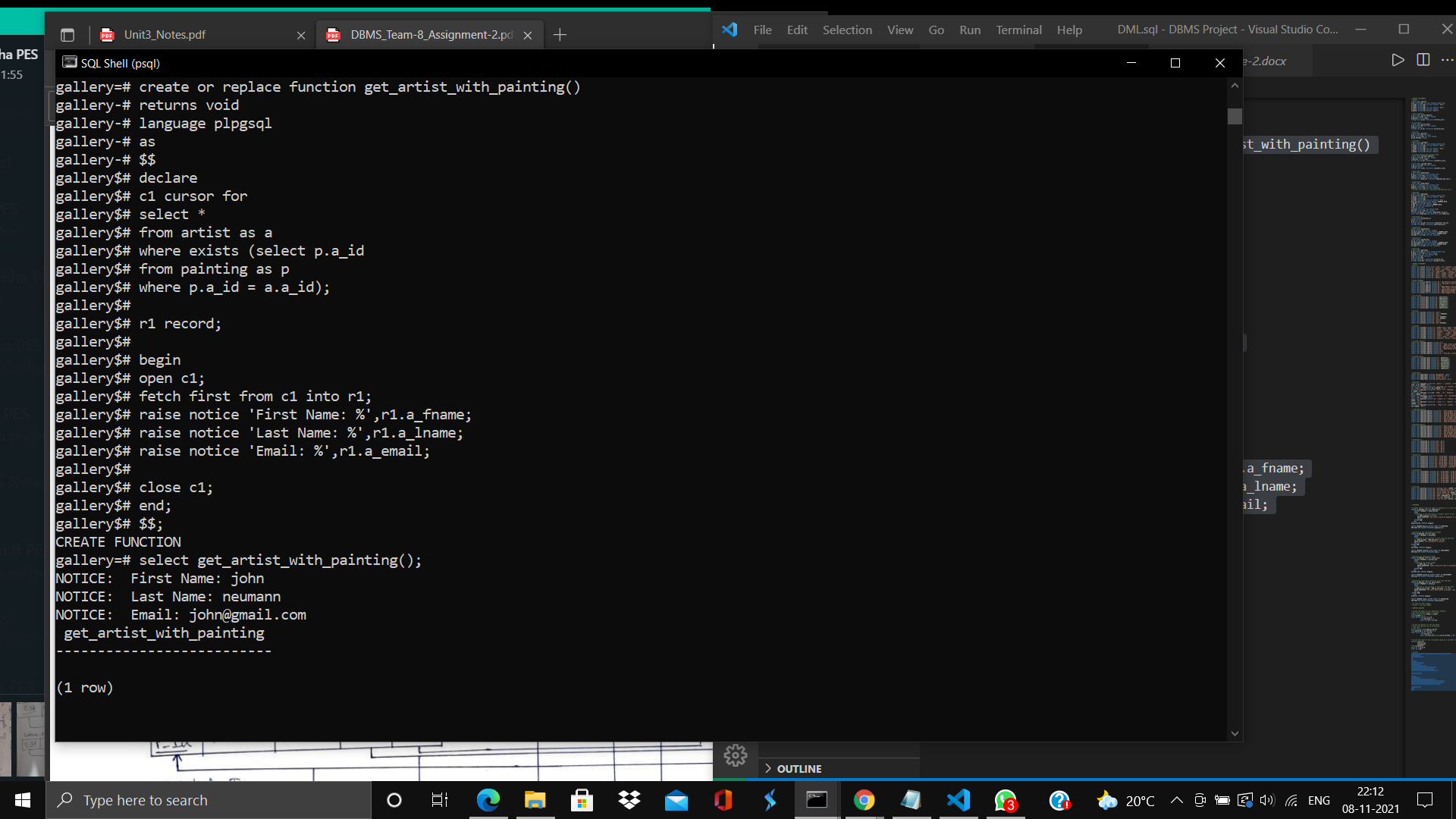
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1. **To get the paintings that have been exhibited atleast once**

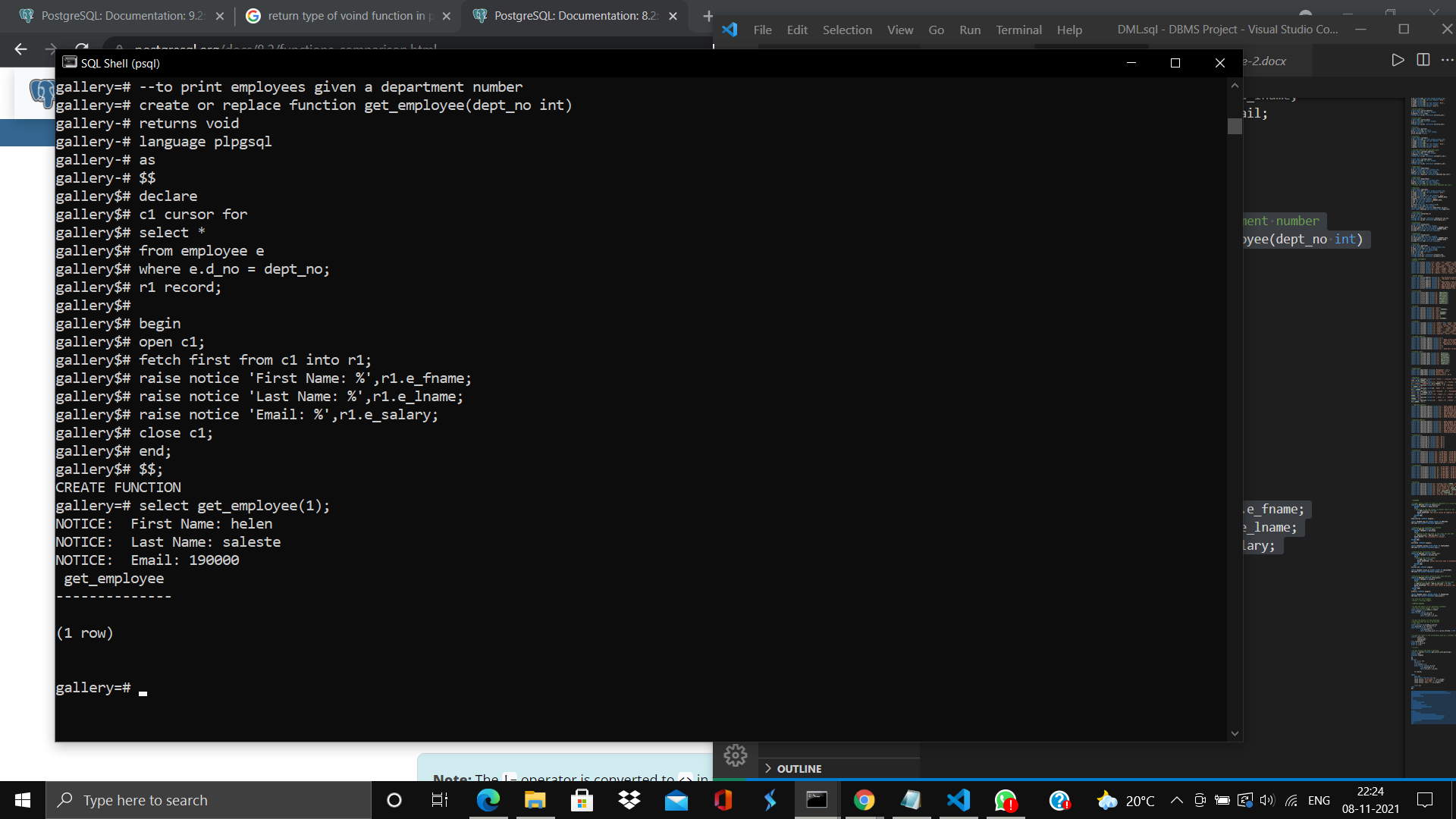
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**Cursors:**

**1.To get artists with paintings in the gallery**

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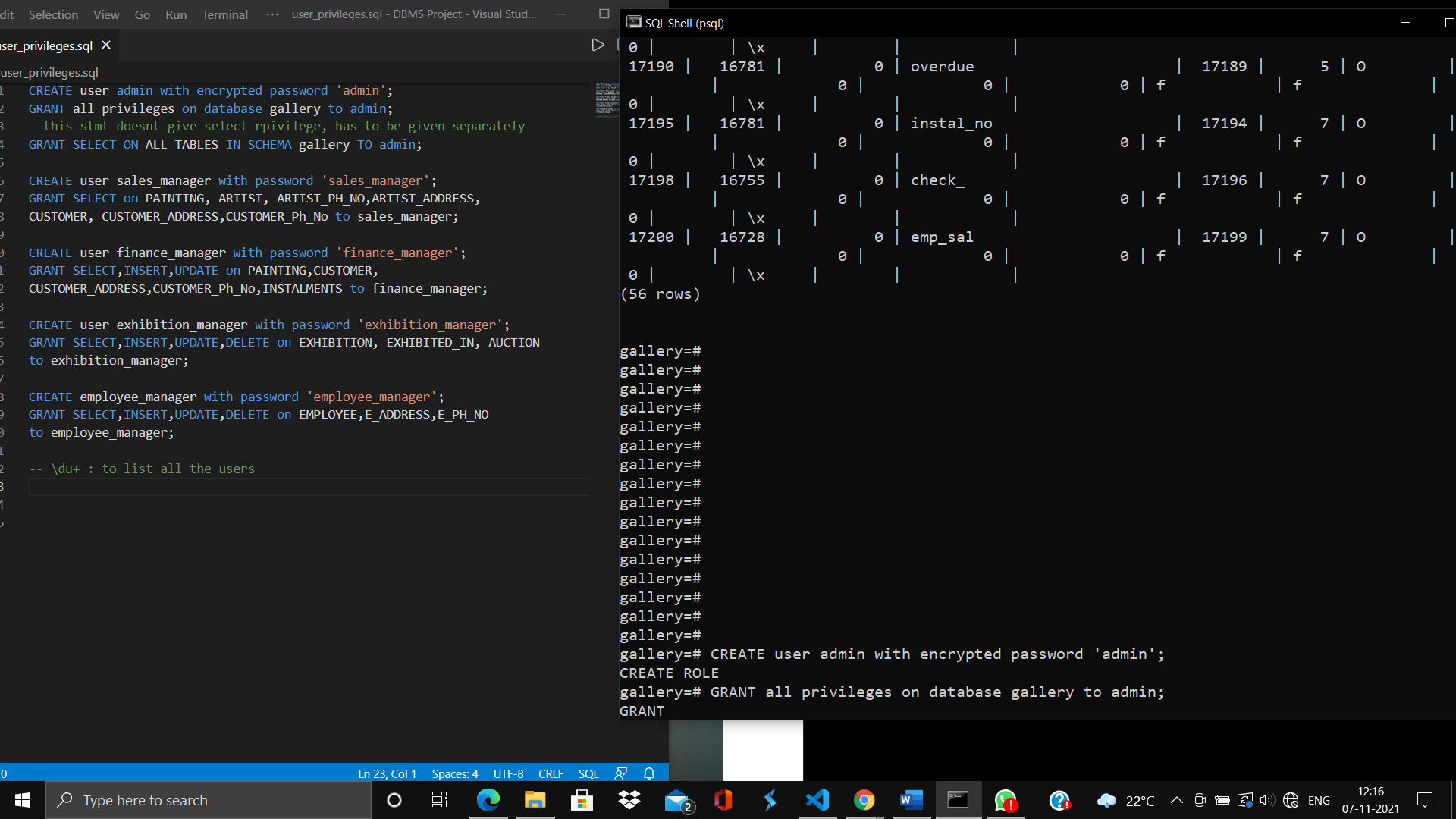
**2.To get employees from a given department number:**

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**User privileges:**

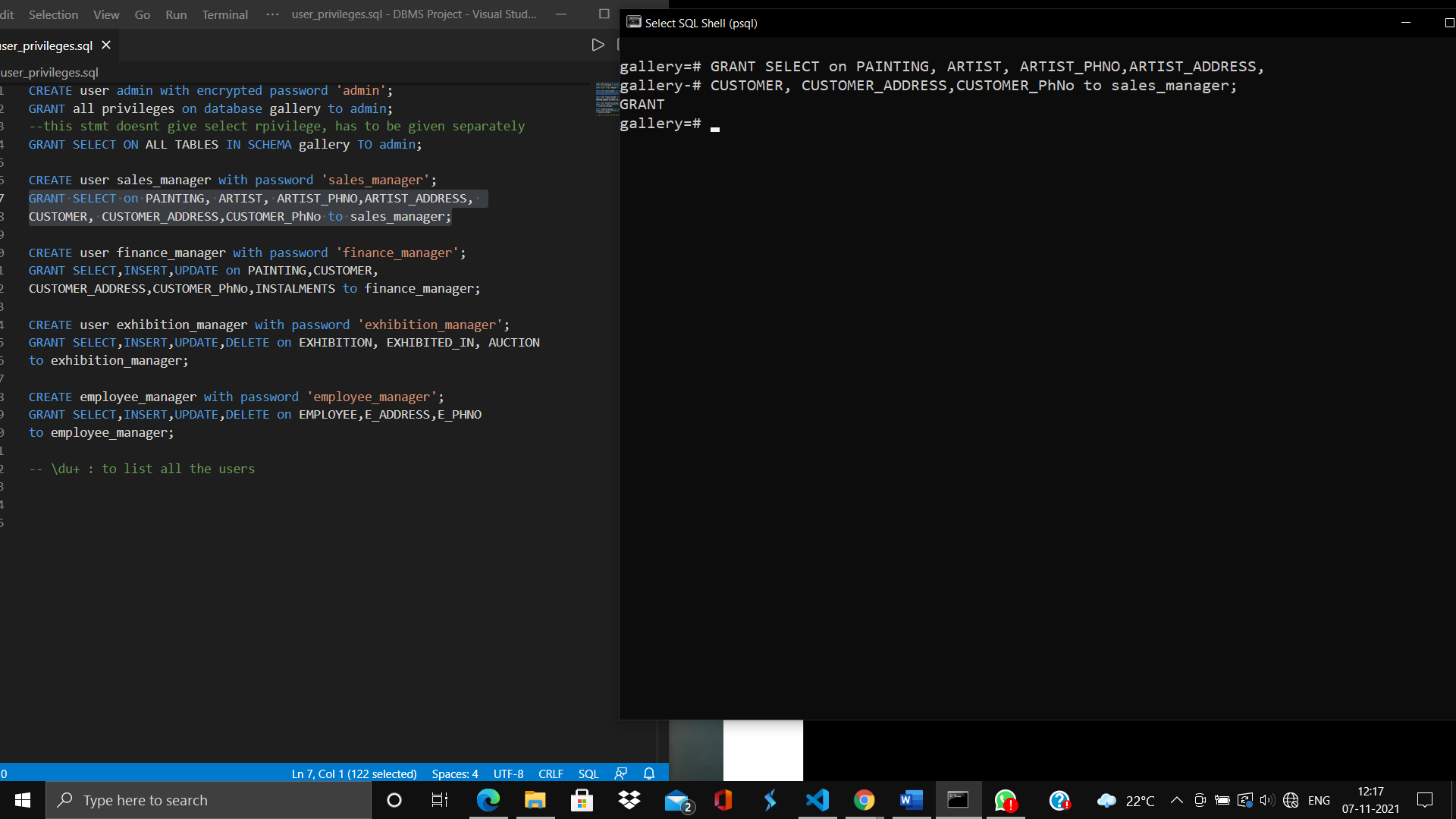
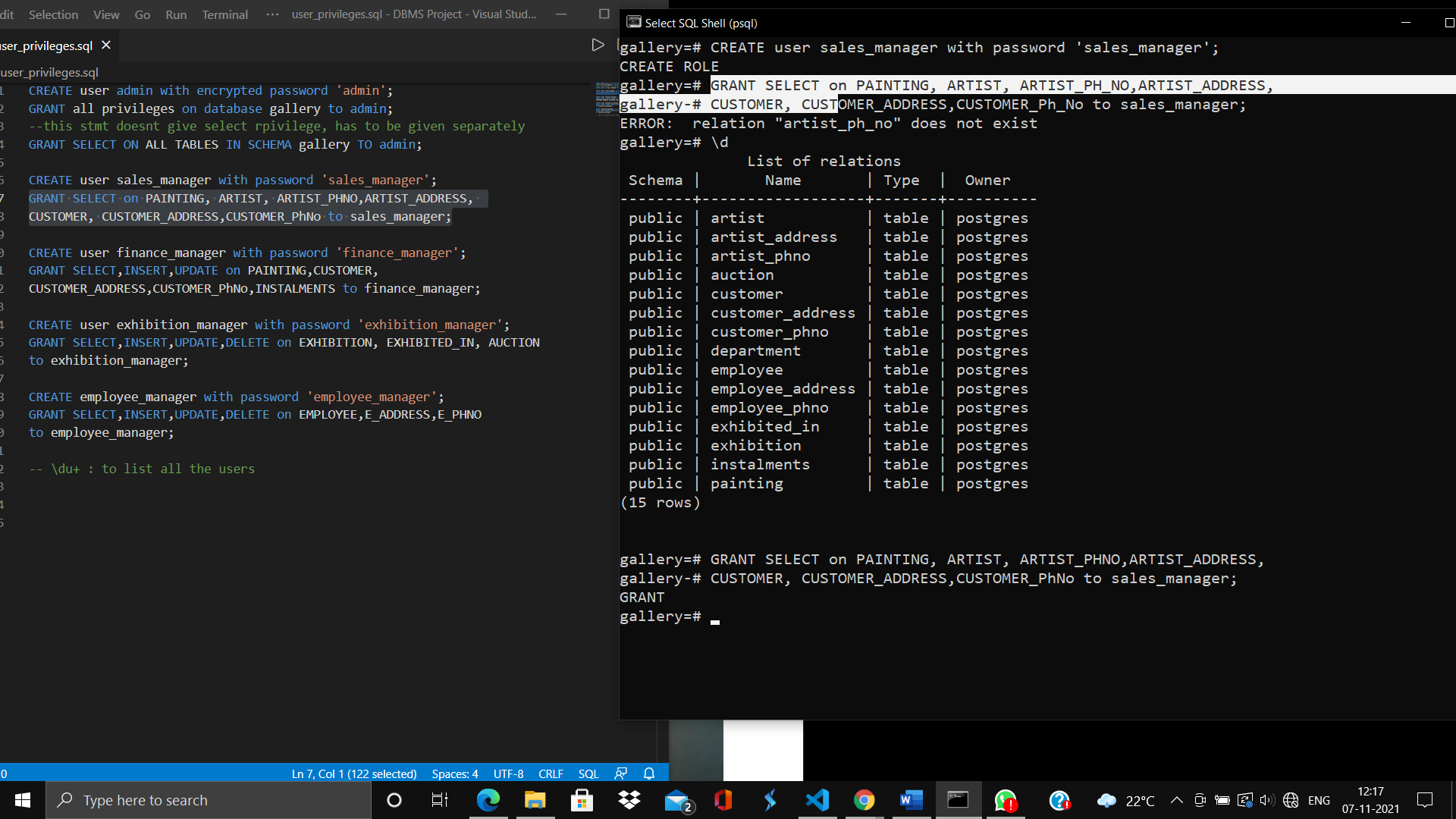
**A total of five users are created to manage the whole database.**

1. **Admin: Has all privileges on the database(Create,Connect and Temporary)**

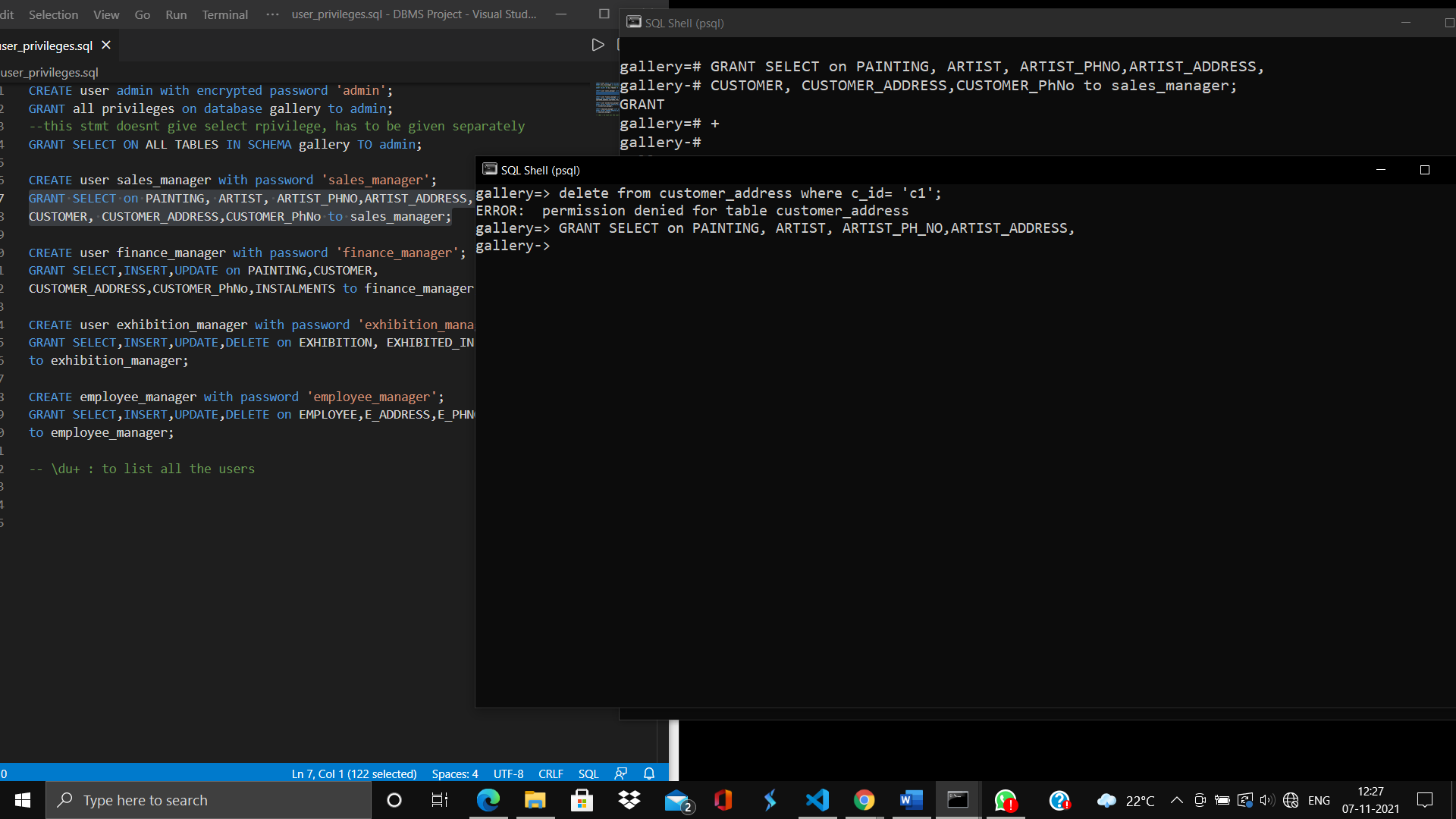
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1. **Sales manager is given select privileges on:**

**PAINTING, ARTIST, ARTIST\_PHNO,ARTIST\_ADDRESS, CUSTOMER, CUSTOMER\_ADDRESS,CUSTOMER\_PhNo**

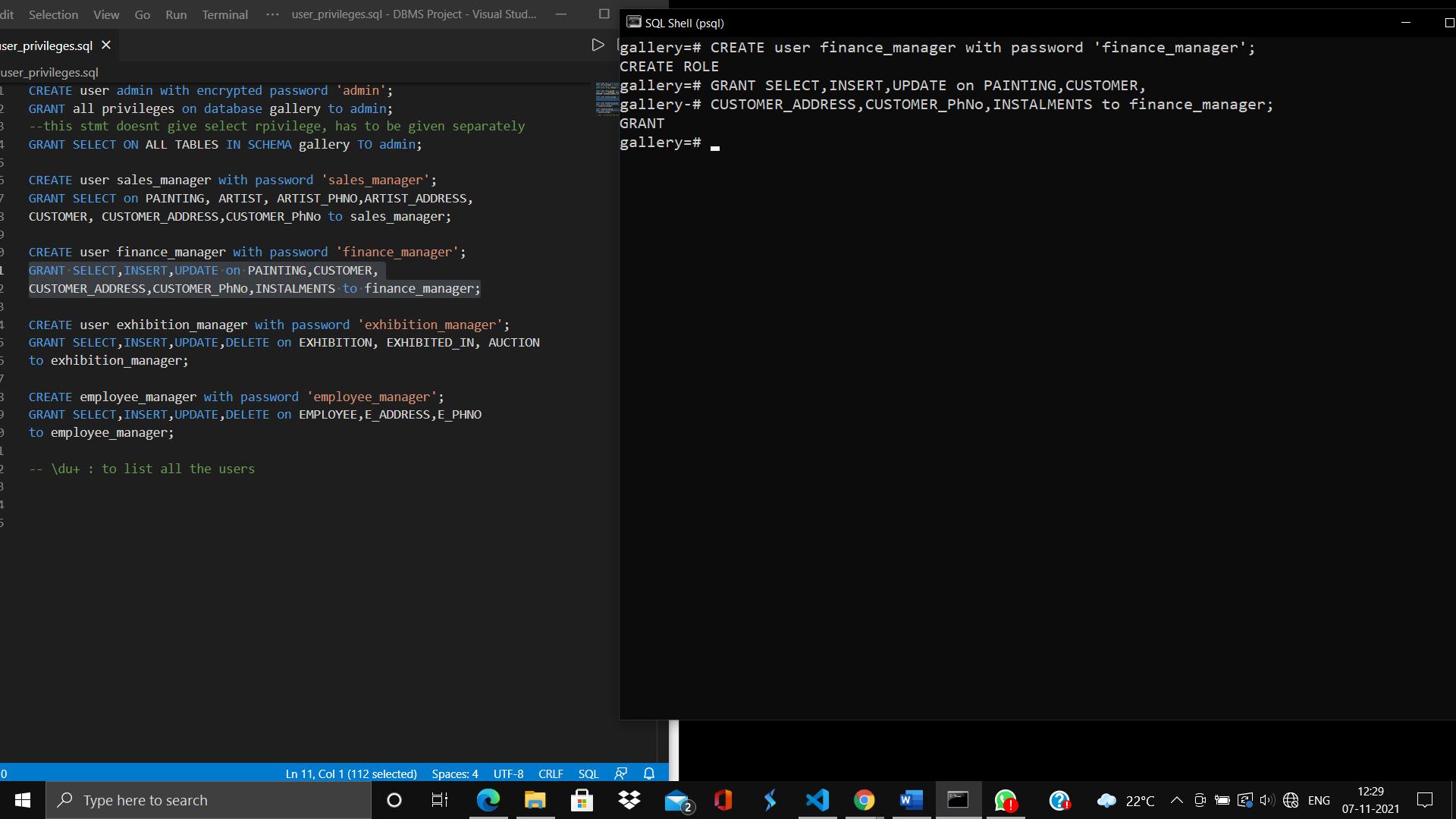
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**The user can’t delete a record because only select is granted.**

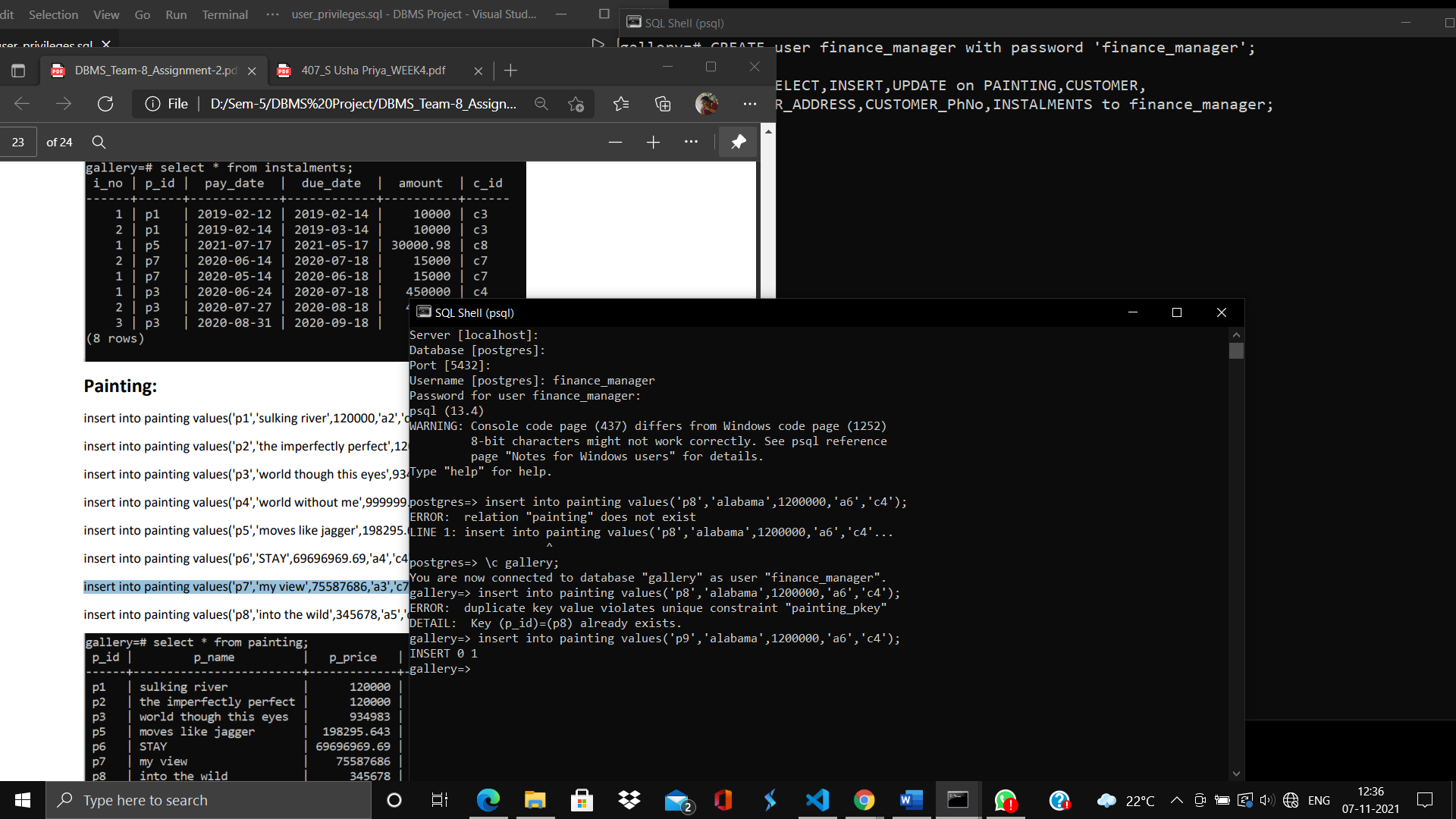
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1. **Finance Manager is given SELECT, INSERT, UPDATE PRIVILEGES ON PAINTING,CUSTOMER,CUSTOMER\_ADDRESS,CUSTOMER\_PhNo,**

**INSTALMENTS**

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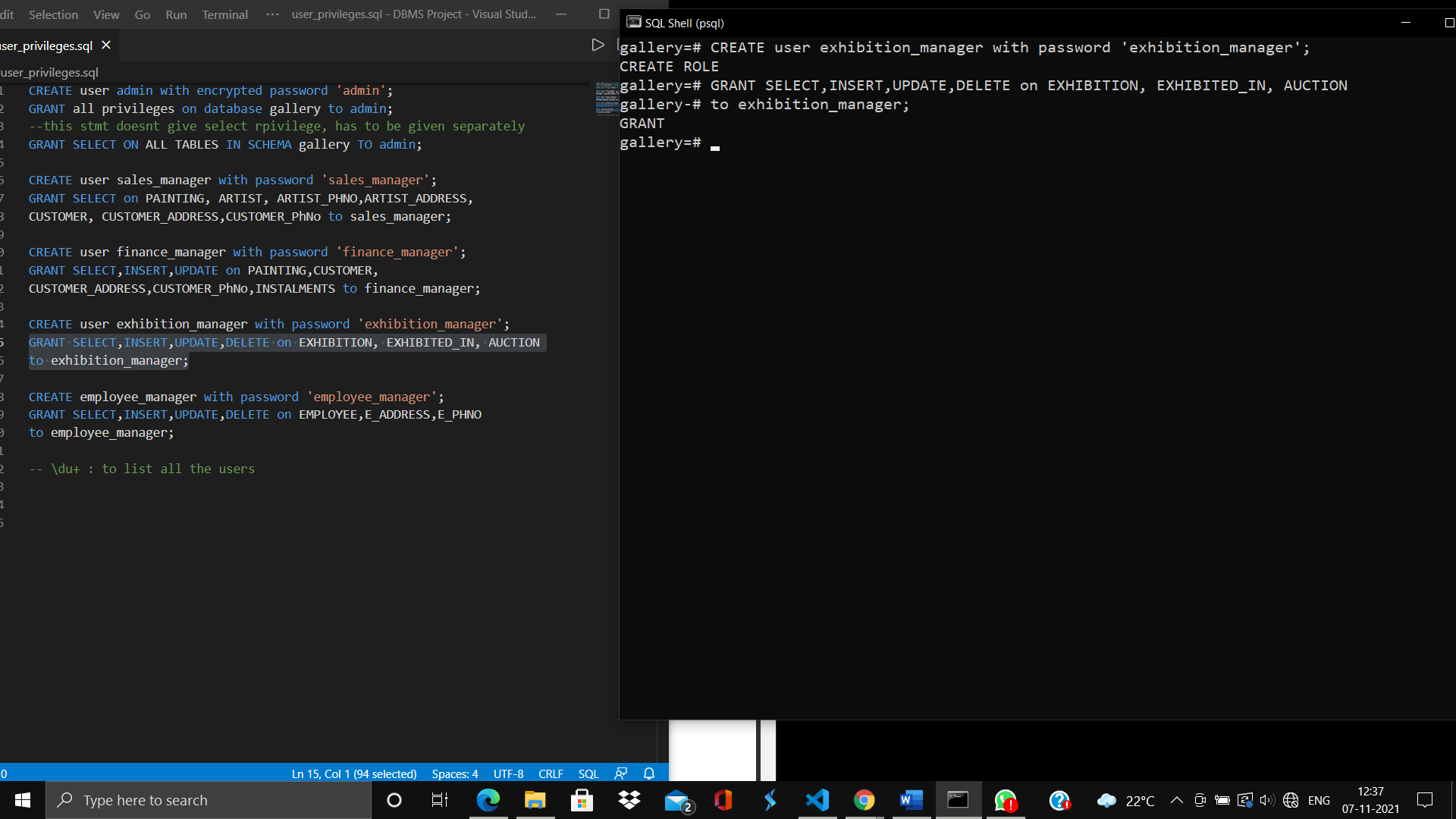
**Inserting a new value into the relation painting**

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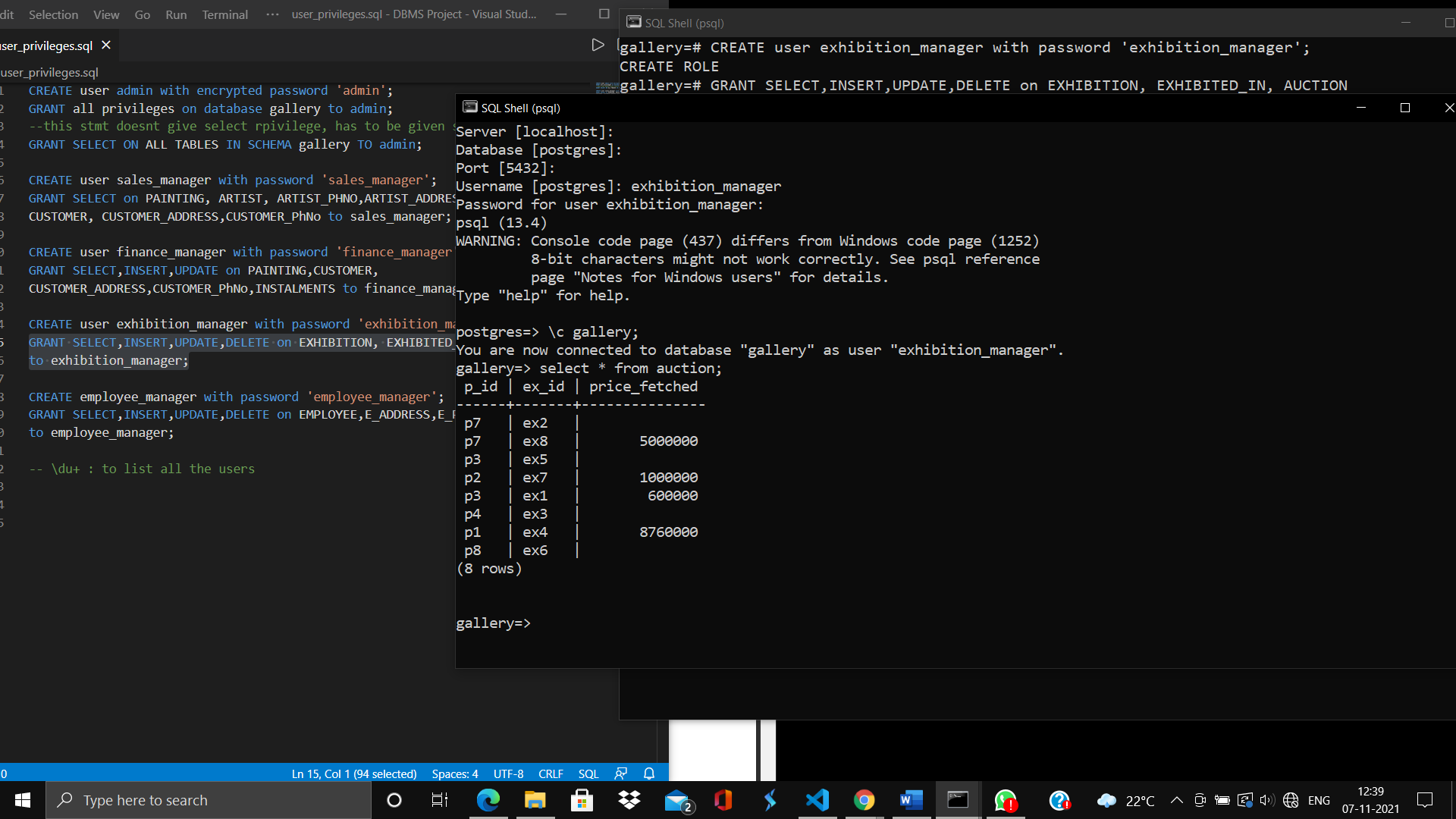
1. **Exhibition manager:**

**Has select, insert, update, delete privileges on**

**exhibition, exhibited\_in, auction**

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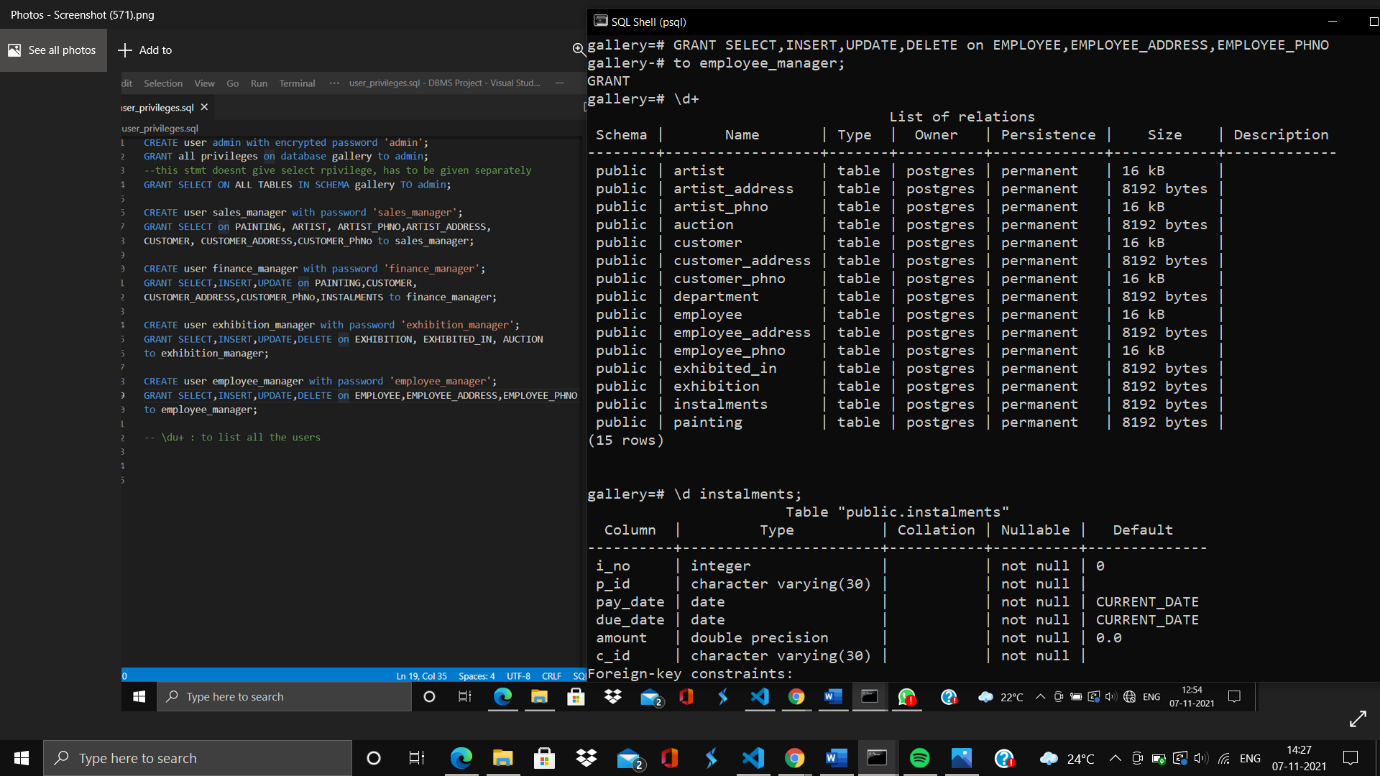
**Select \* on auction by exhibition manager:**

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1. **Employee manager:**

**Has select, insert, update, delete privileges on:**

**EMPLOYEE,EMPLOYEE\_ADDRESS,EMPLOYEE\_PHNO**

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**select \* from employee\_phno by employee\_manager:**

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**Individual Contributions:**

**Deekshitha: 2 queries and cursors**

**Deepa: Triggers, 2 queries and user**