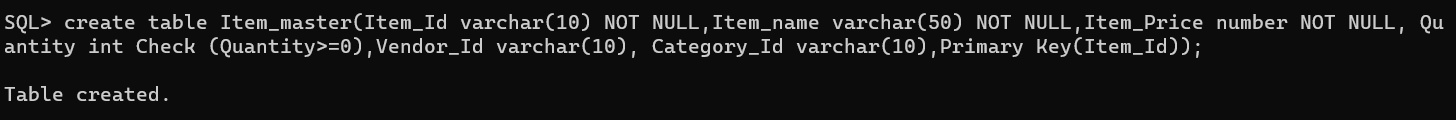
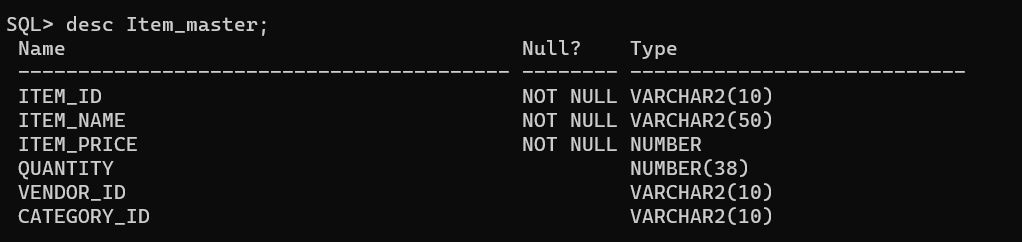
**Store Management System**

**21BLC1452 Preetam Kalyaan**

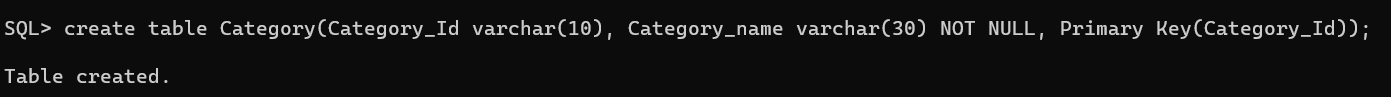
**Creating the tables with constraints:**

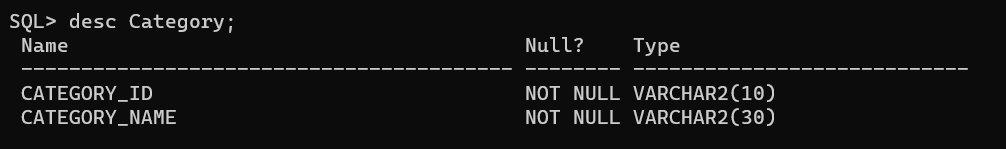
**Item master:**

****

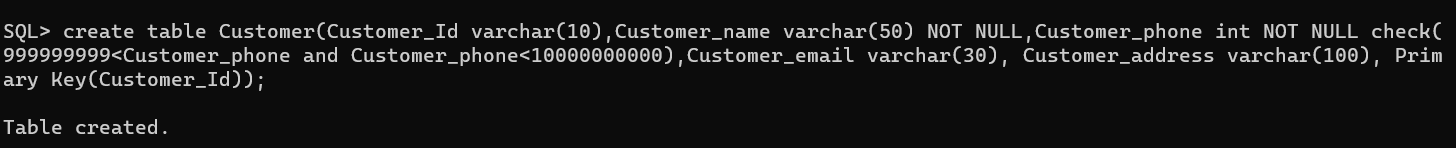
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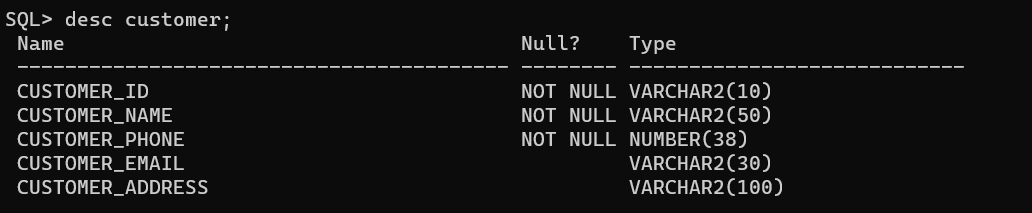
**Category:**

****

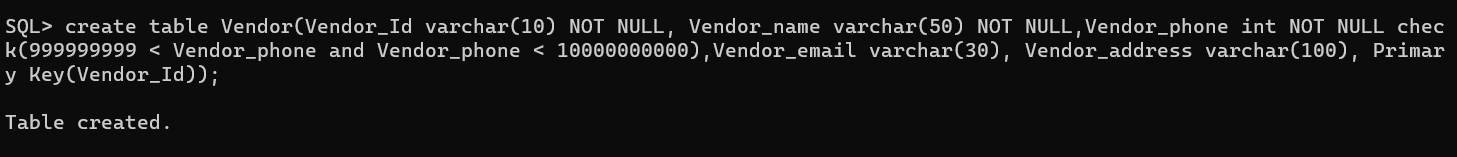
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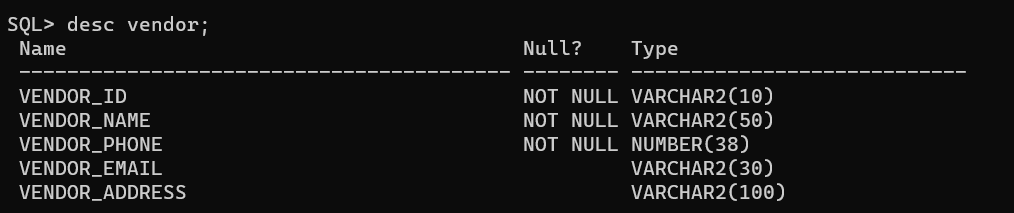
**Customer:**

****

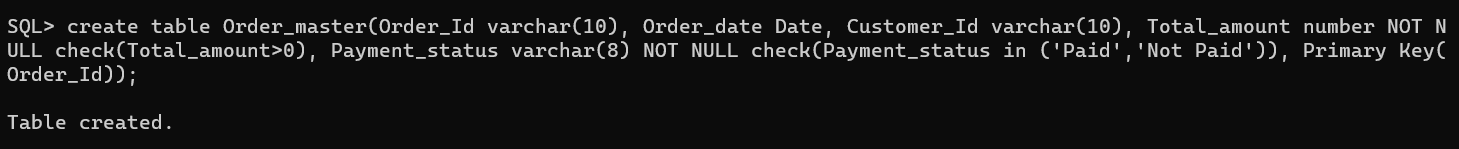
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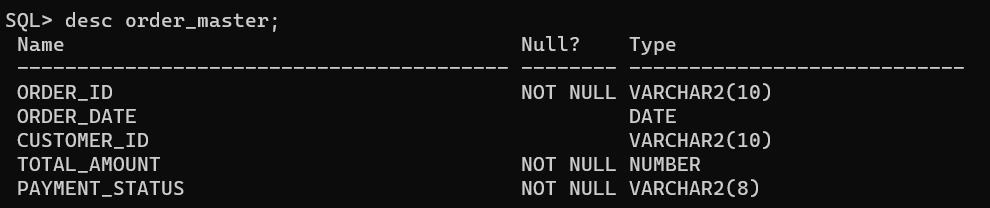
**Vendor:**

****

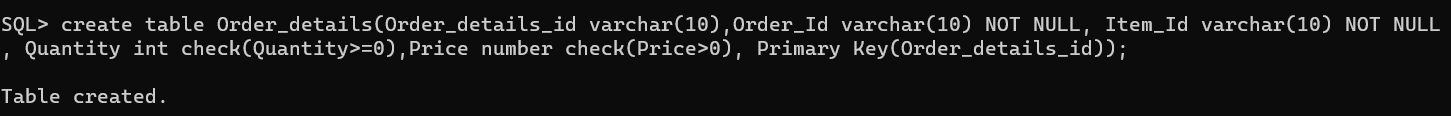
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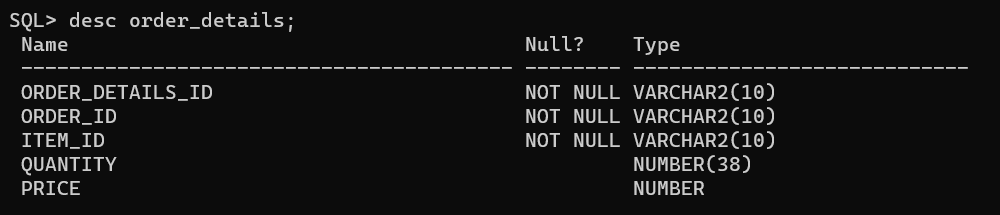
**Order Master:**

****

****

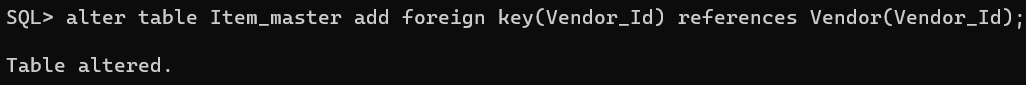
**Order details:**

****

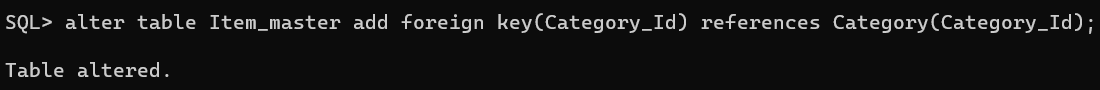
****

**Linking the tables:**

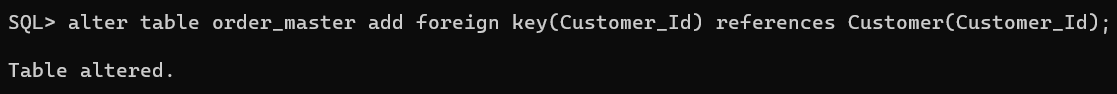
**Linking Item master and Vendor tables using foreign key approach:**

****

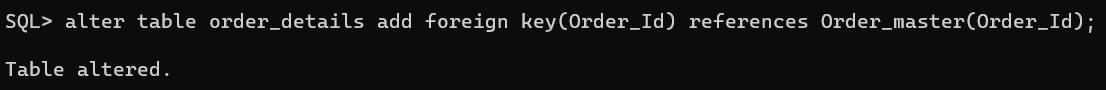
**Linking Item master and Category tables using foreign key approach:**

****

**Linking Order master and Customer tables using foreign key approach:**

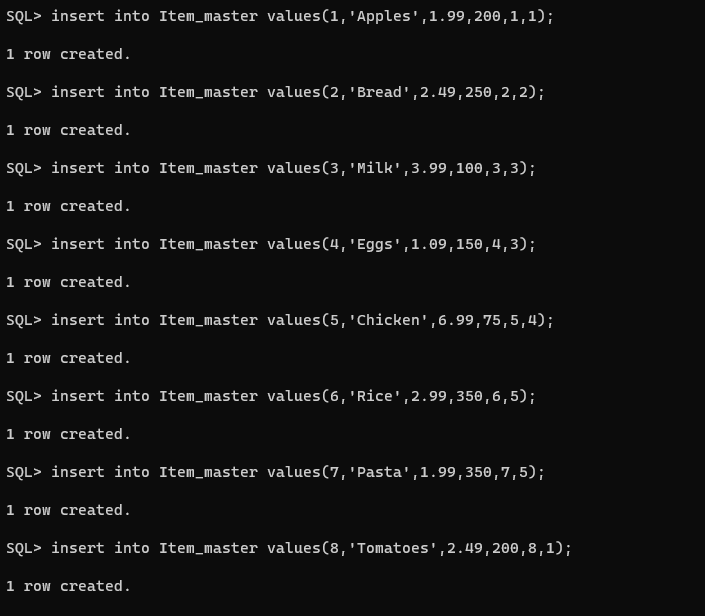
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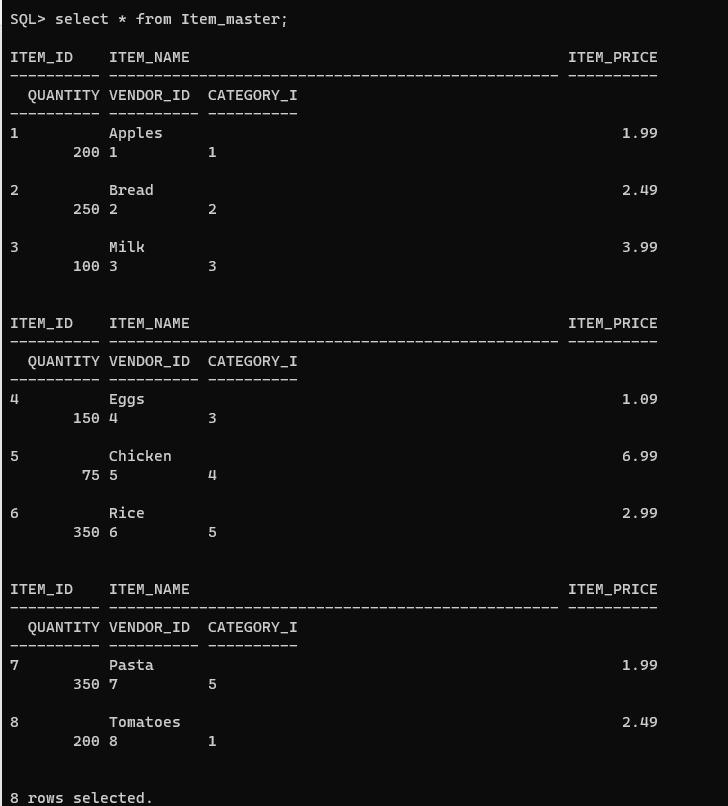
**Linking Order details and Order master tables using foreign key approach:**

****

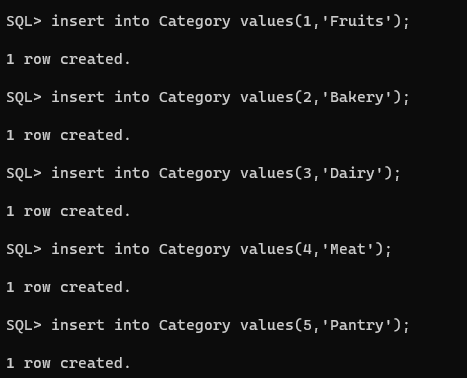
**Inserting values into the tables:**

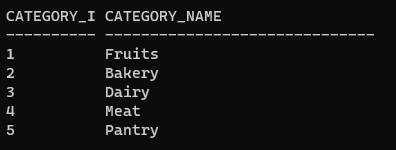
**Item Master:**

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**Category:**

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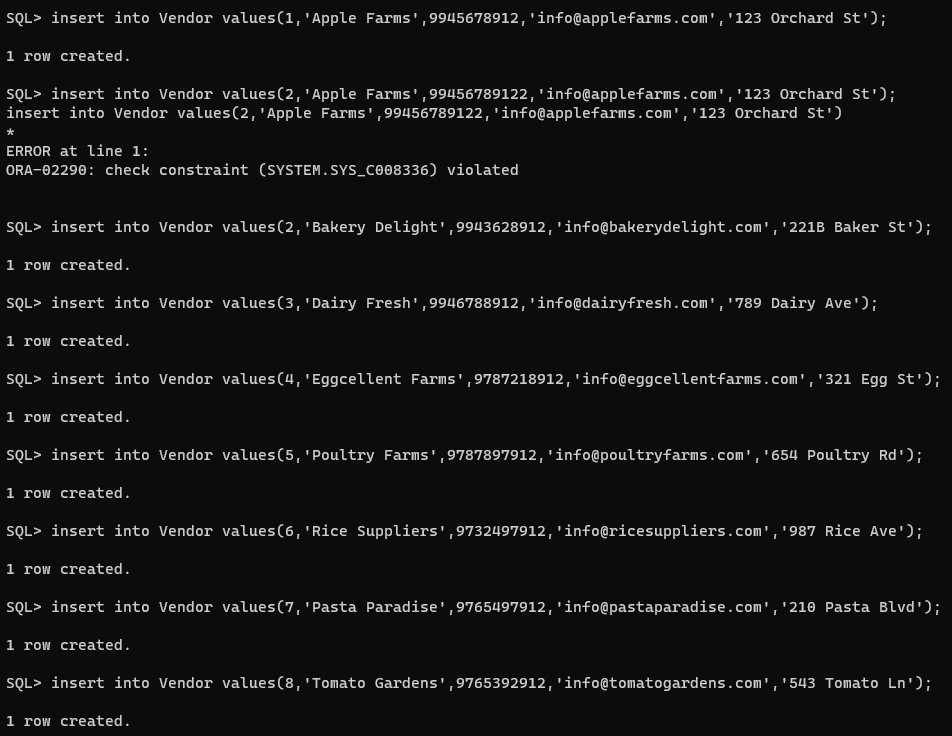
**Customer:**

****

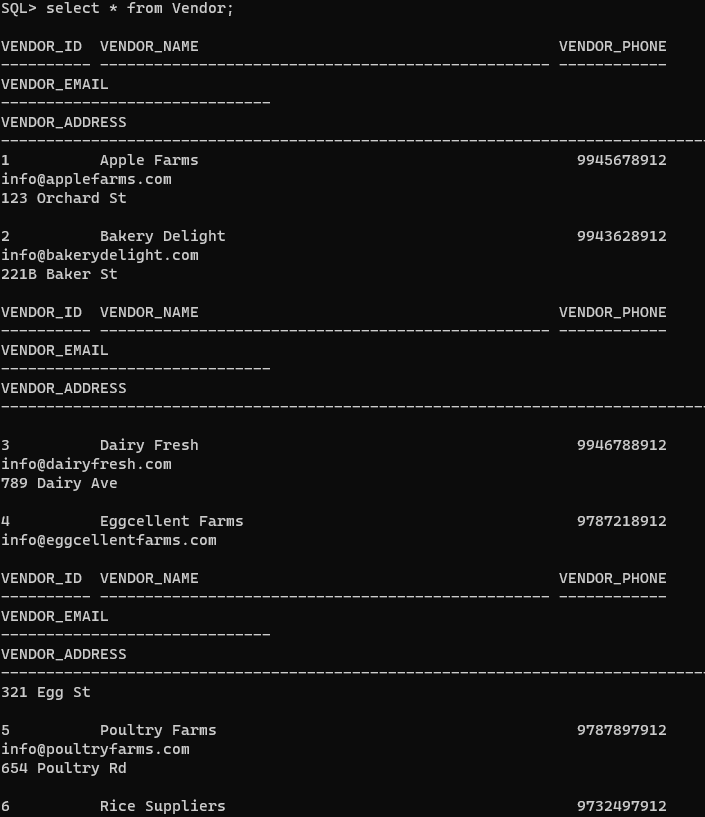
****

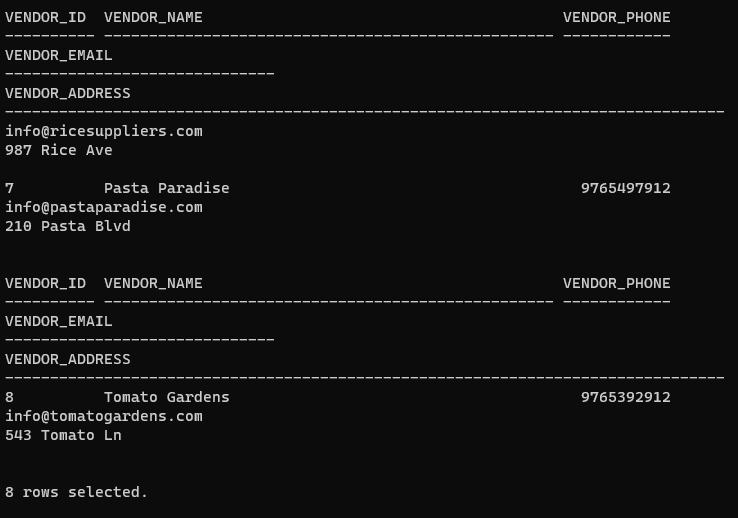
****

**Vendor:**

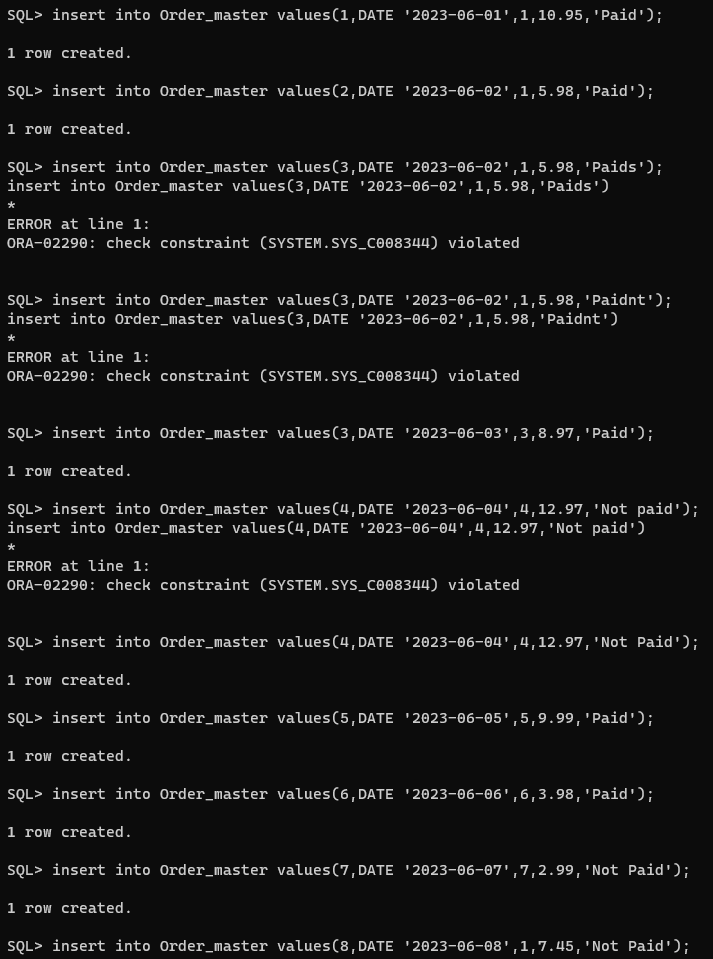
****

Here we can see that the first number was not accepted as it didn’t adhere to the constraints set on that column(Phone number should have 10 digits).

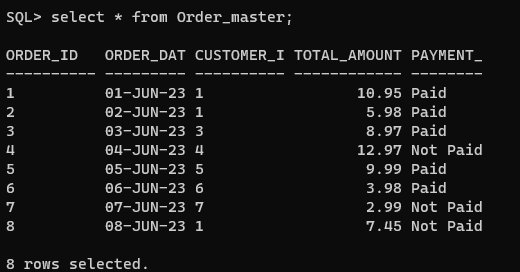
****

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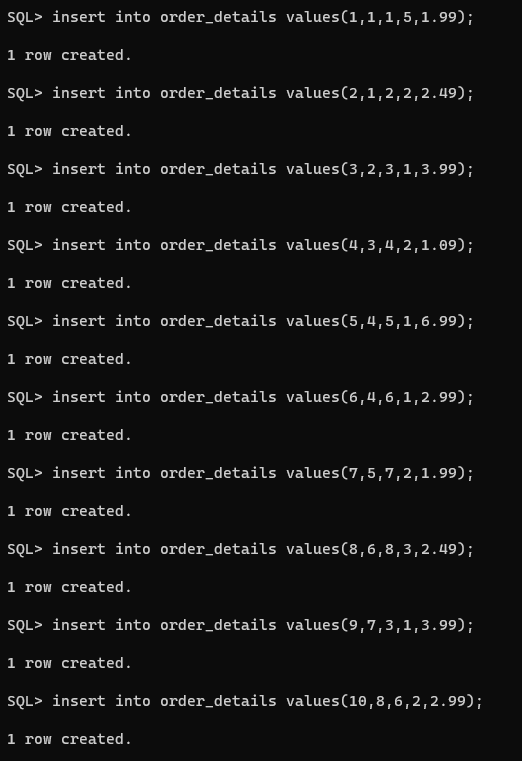
**Order Master:**

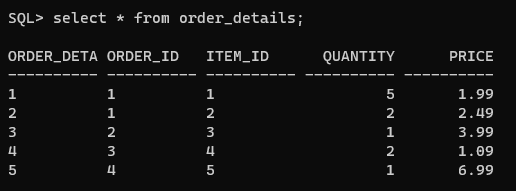
****

Here we can see that no other values other than ‘Paid’ and ‘Not Paid’ can be entered into the Payment Status field.

****

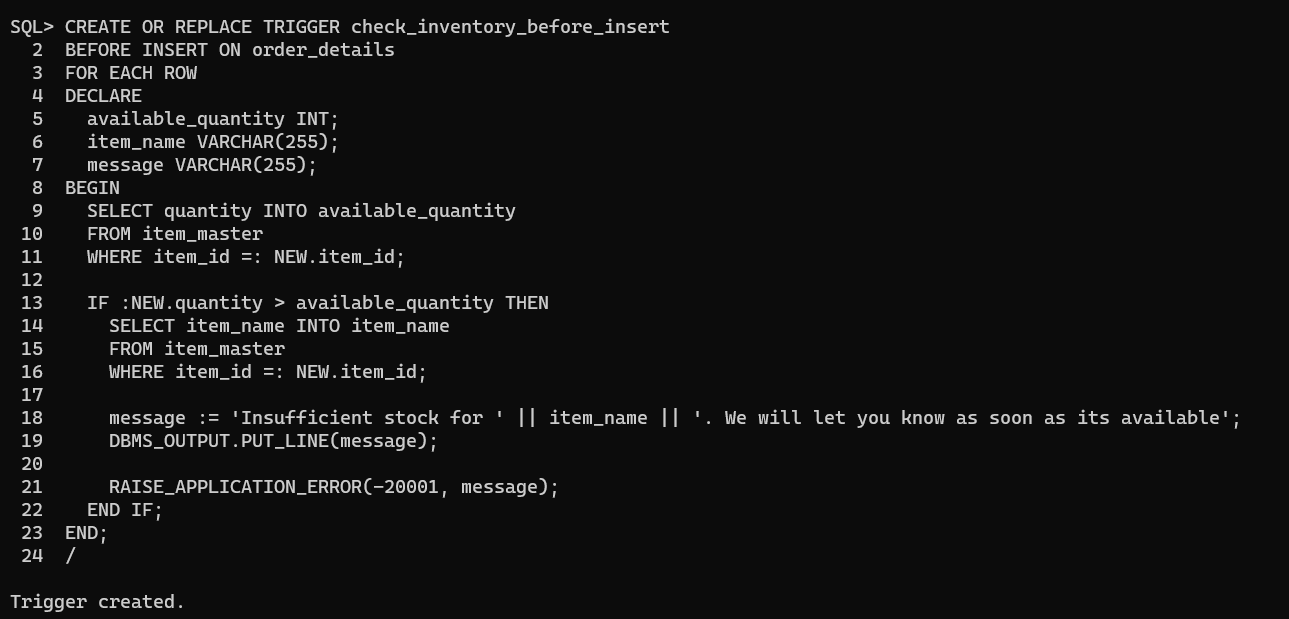
**Order details:**

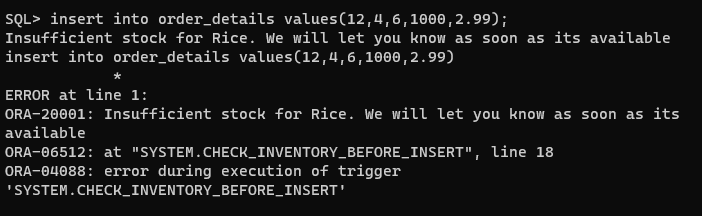
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**SQL Triggers:**

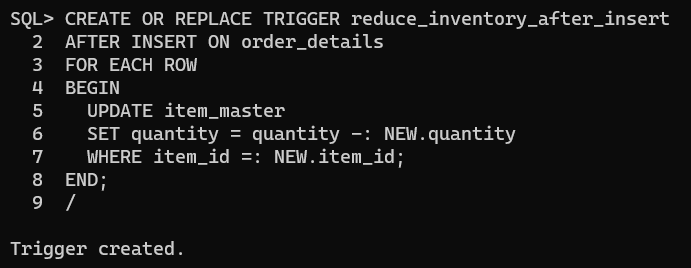
**Trigger to display error message whenever an item order is higher than the available inventory:**

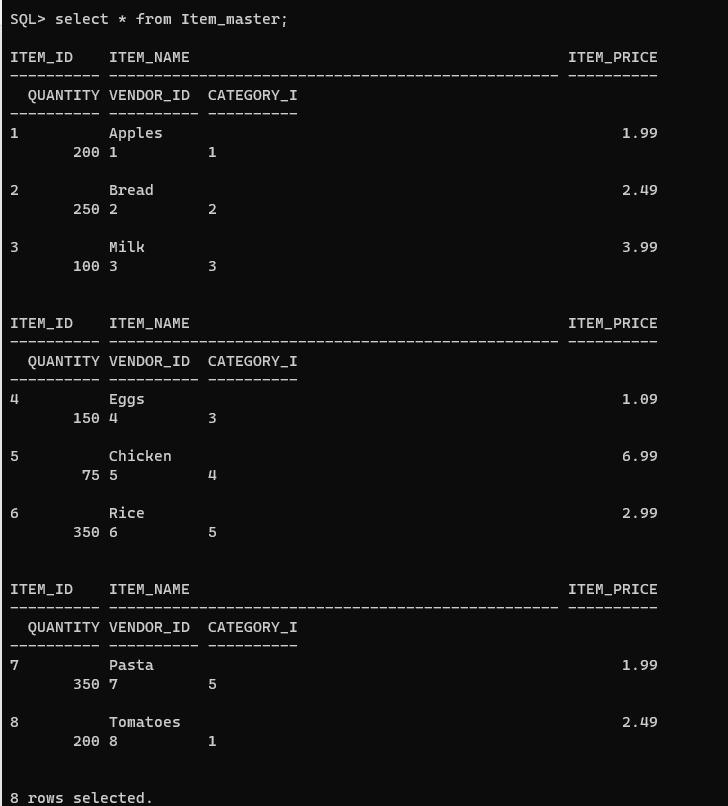
****

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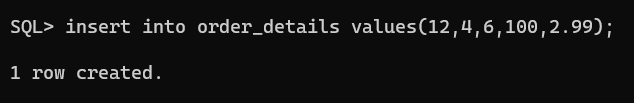
An error is raised and the value will not be inserted into the table delivering an error message.

**Trigger to automatically reduce inventory value when an order is placed:**

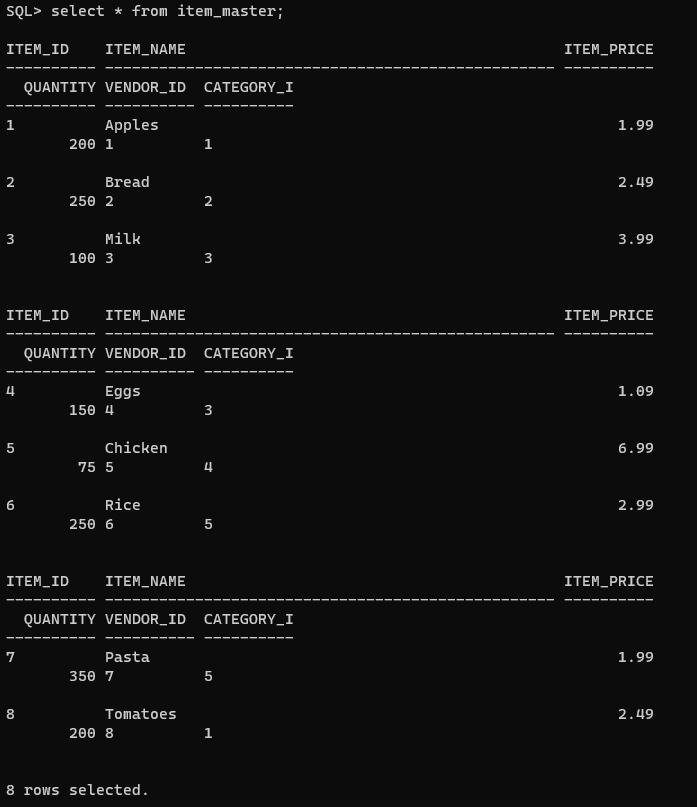
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Here we can see that the quantity for the item ‘Rice’ is 350.

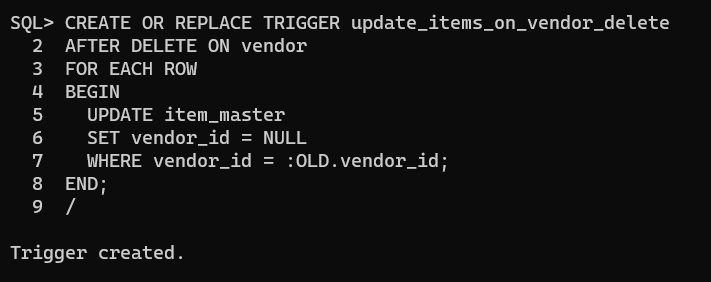


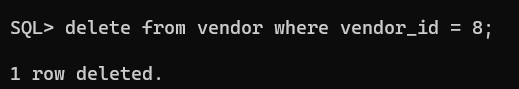
Now we raise a new order for rice for a quantity of 100.

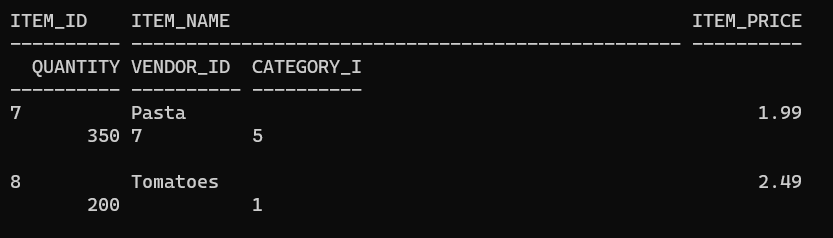


We can see that the quantity of rice has been reduce down to 250 now.

**Trigger to set the value for vendor id in item master as null if said vendor is deleted from the vendor table:**

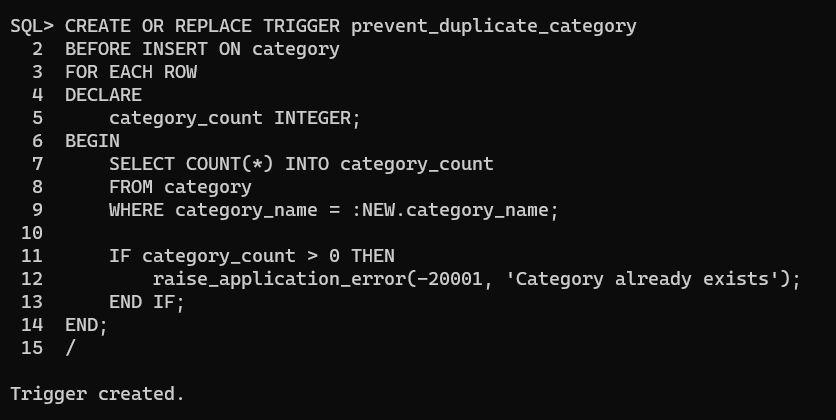
****

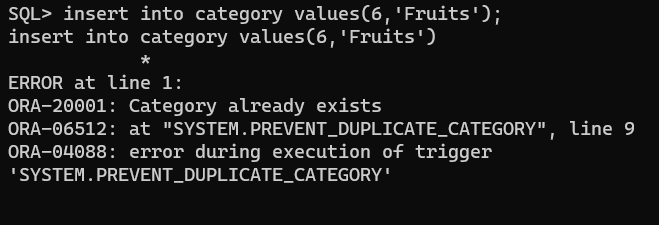
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As you can see, the vendor id column is set to NULL when the corresponding vendor is deleted from the vendor table.

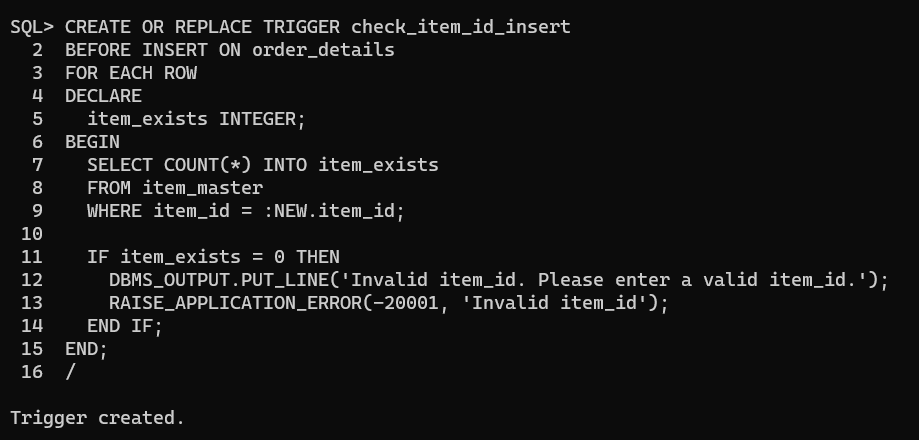
**Trigger to prevent duplicate categories:**

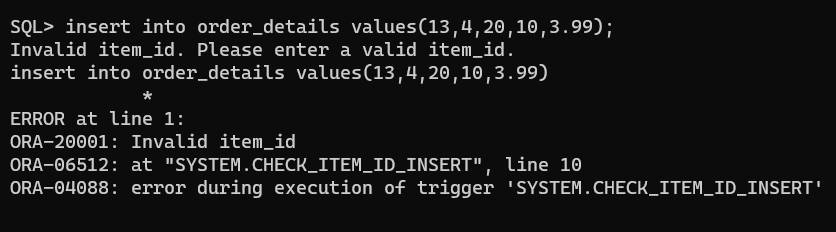
****

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Here we can see that an error message ‘Category already exists’ pops up when duplicate entry is detected.

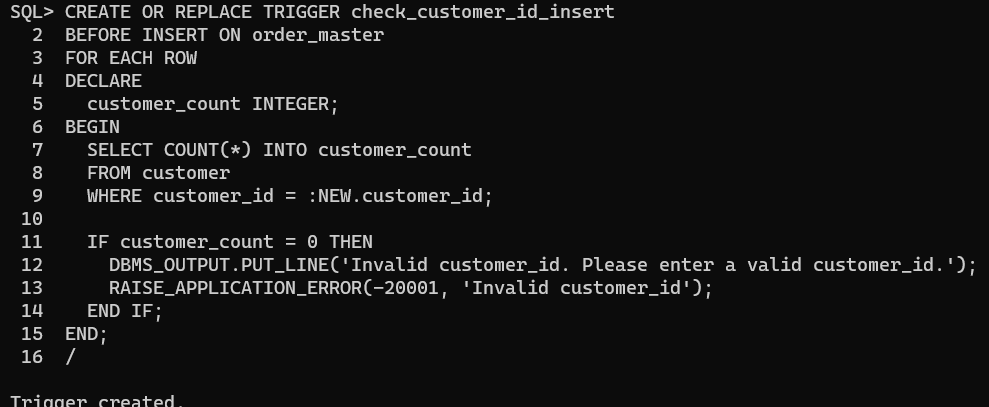
**Trigger to raise error when invalid item id is ordered:**

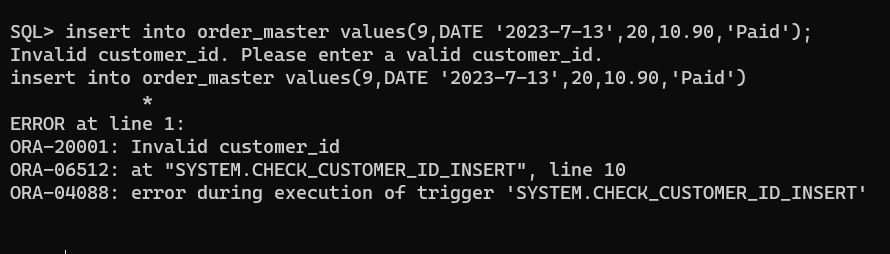
****

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An error is raised when invalid item id is ordered.

**Trigger to raise error when invalid customer id is entered:**





Here we can see that when an invalid customer id is used to place an order, an error is raised.