**DBMS ASSIGNMENT -1**

**Title name : improvement of Car-D portal**

**Abstract :**

CAR-D (Cargo - Data) is a web-based portal for collection & compilation, analysis and dissemination of all the cargo and cruise movement data for IWAI and its stakeholders. Portal gives access of the data to general public showcasing IWAI capabilities and potential of inland waterways transport. The Car-D portal helps in collating real-time information on all the cargo and cruise traffic data of the National Waterway. It also provides information related to the infrastructure of Waterways. It provides access to all stakeholders and general public thus bringing trust in the data being reported for IWT sector. It assists potential shippers & cargo owners in identifying cargo type and commodity at various waterways, terminals and jetties.

**Information about tables & it’s attributes :**

Number of tables = 7

1. Cargo\_ship :

cargo\_name varchar2(15),

cargo\_id varchar2(8) primary key ,

capacity number(5),

load varchar2(10)

1. Cruise\_ship :

cruise\_id varchar2(8) primary key ,

cruise\_name varchar2(15),

no\_of\_passengers number(5),

rating number(1) ,

fare number(5)

1. Movement :

starting\_port varchar2(10),

destination\_port varchar2(10),

ship\_id varchar2(8) primary key ,

starting\_date date

1. Stakeholders :

holder\_id number(3) primary key ,

holder\_name varchar2(15),

1. Passengers : booking\_id number(5) primary key ,

name varchar2(15),

1. Reserves :

ship\_id varchar2(8),

booking\_id number(5),

date\_of\_reservation date

1. Holds : ship\_id varchar2(8),

holder\_id number(3),

since date

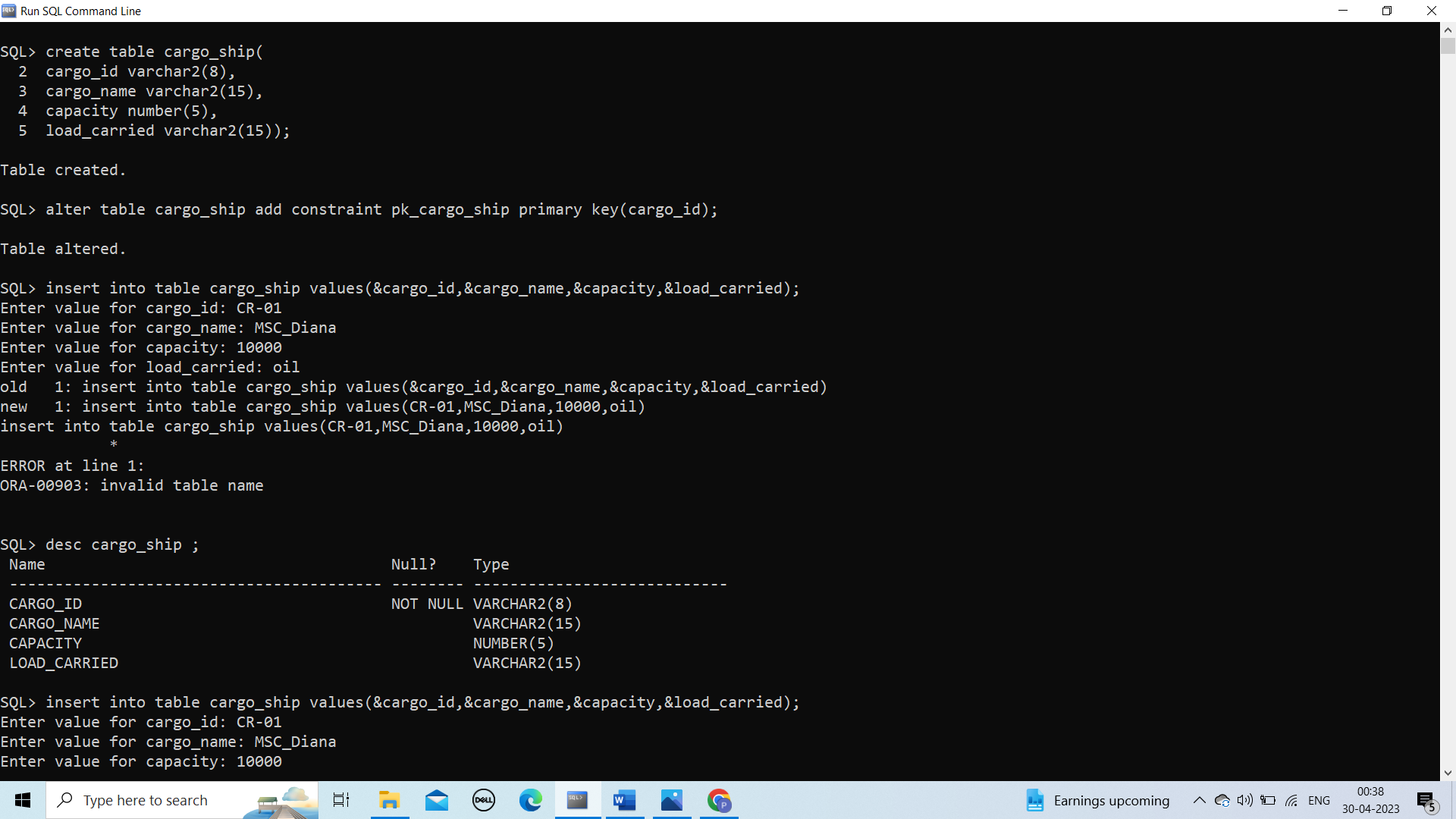
**E-R Model :**

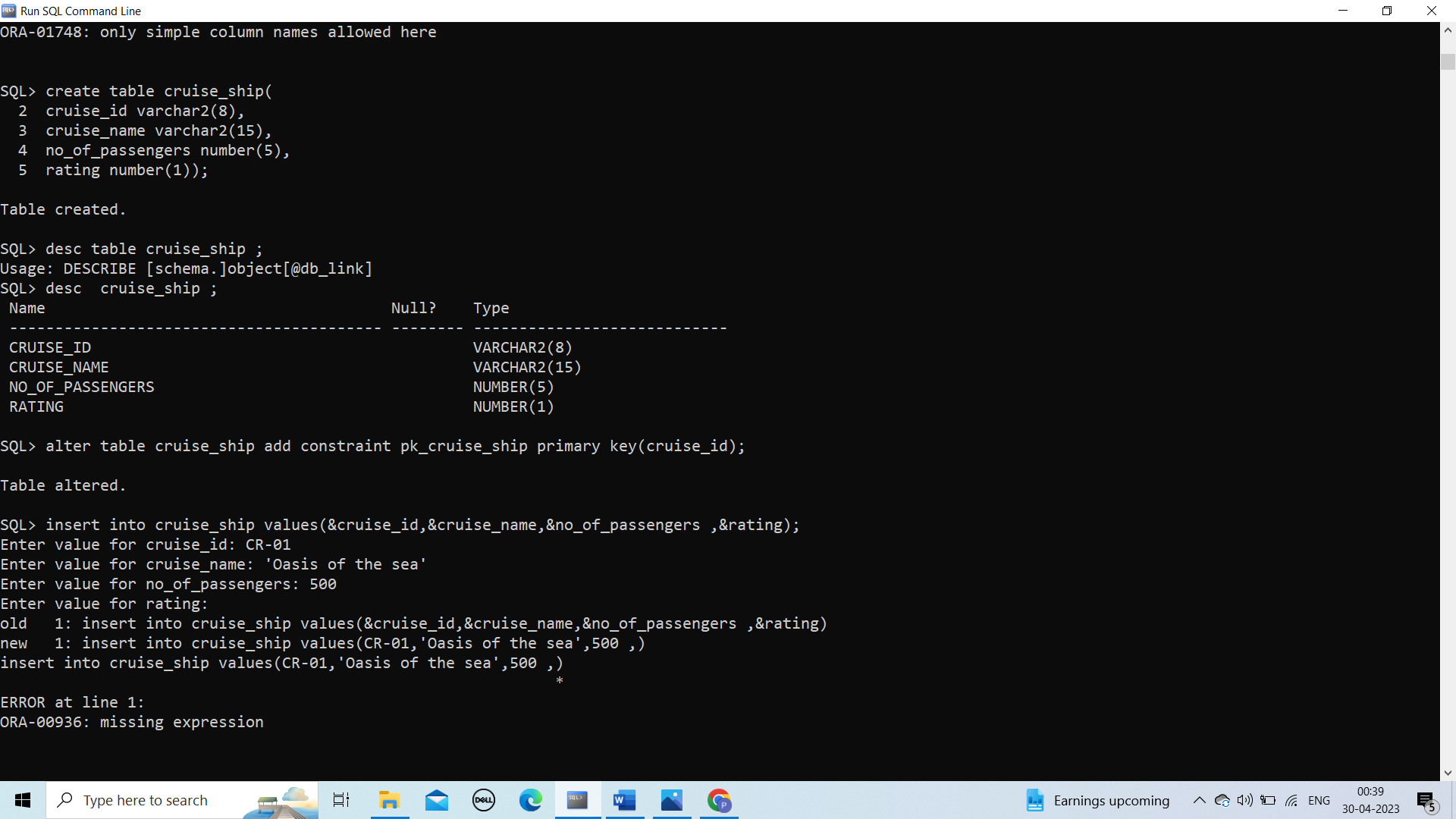
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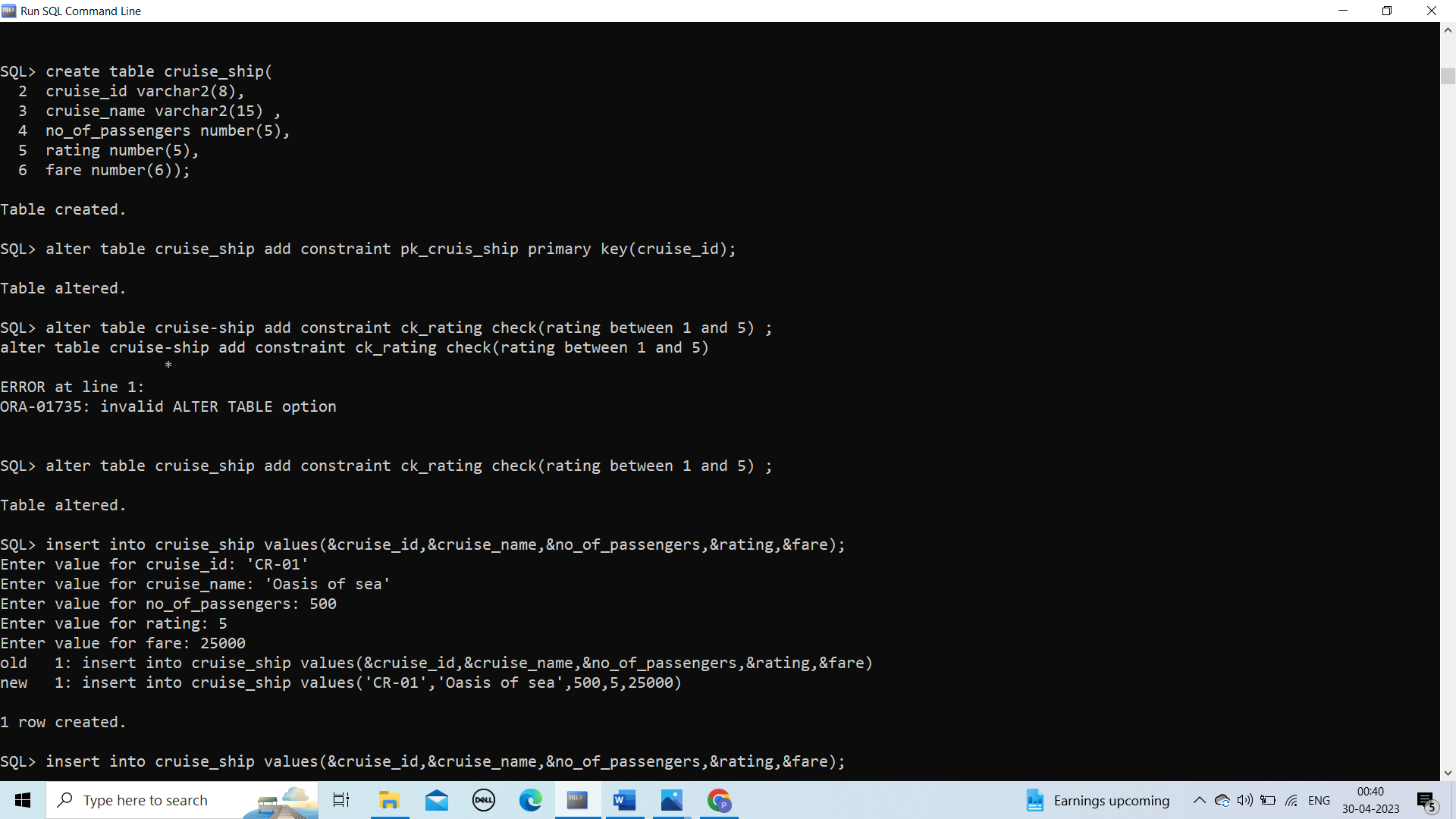
has

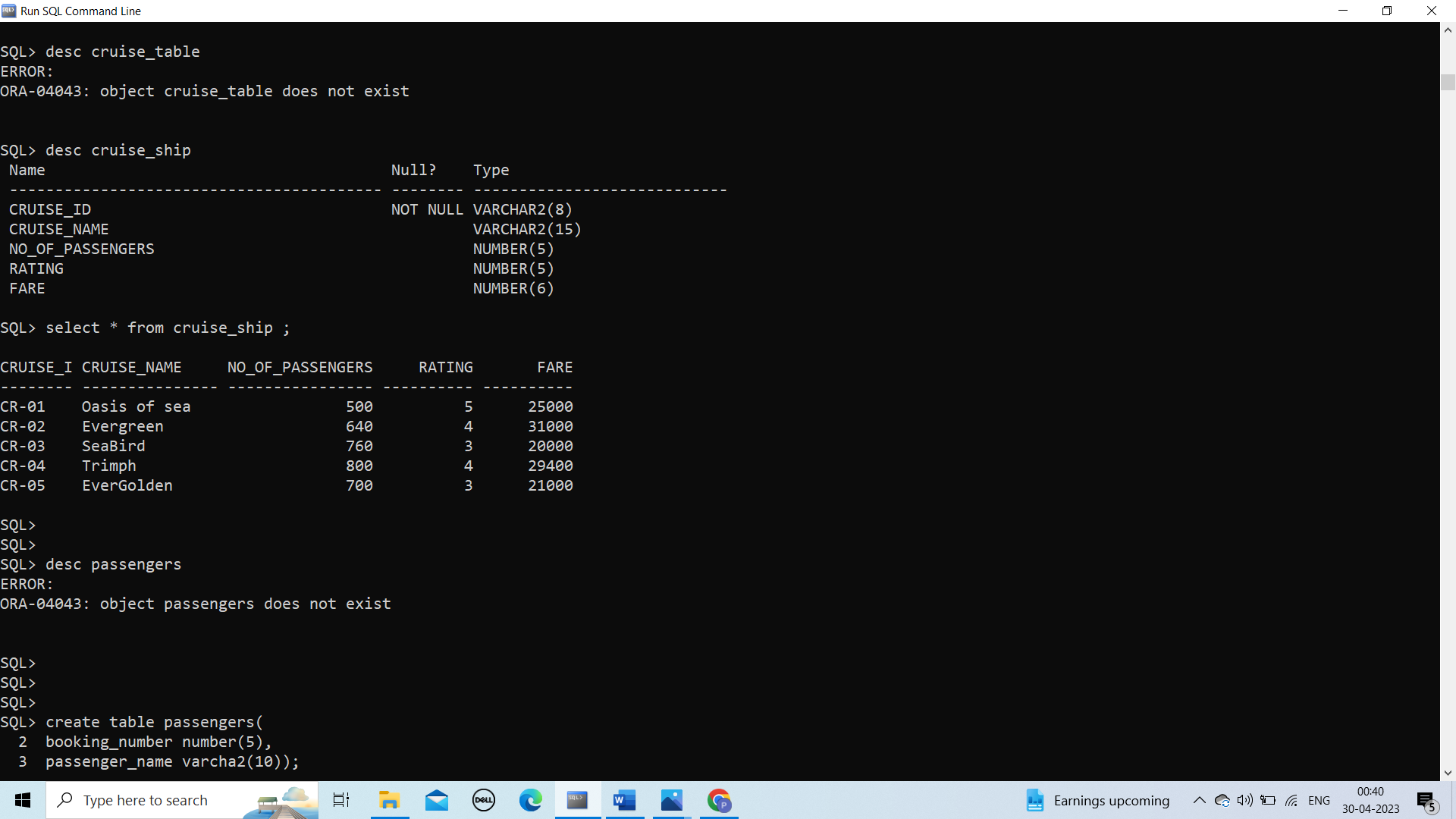
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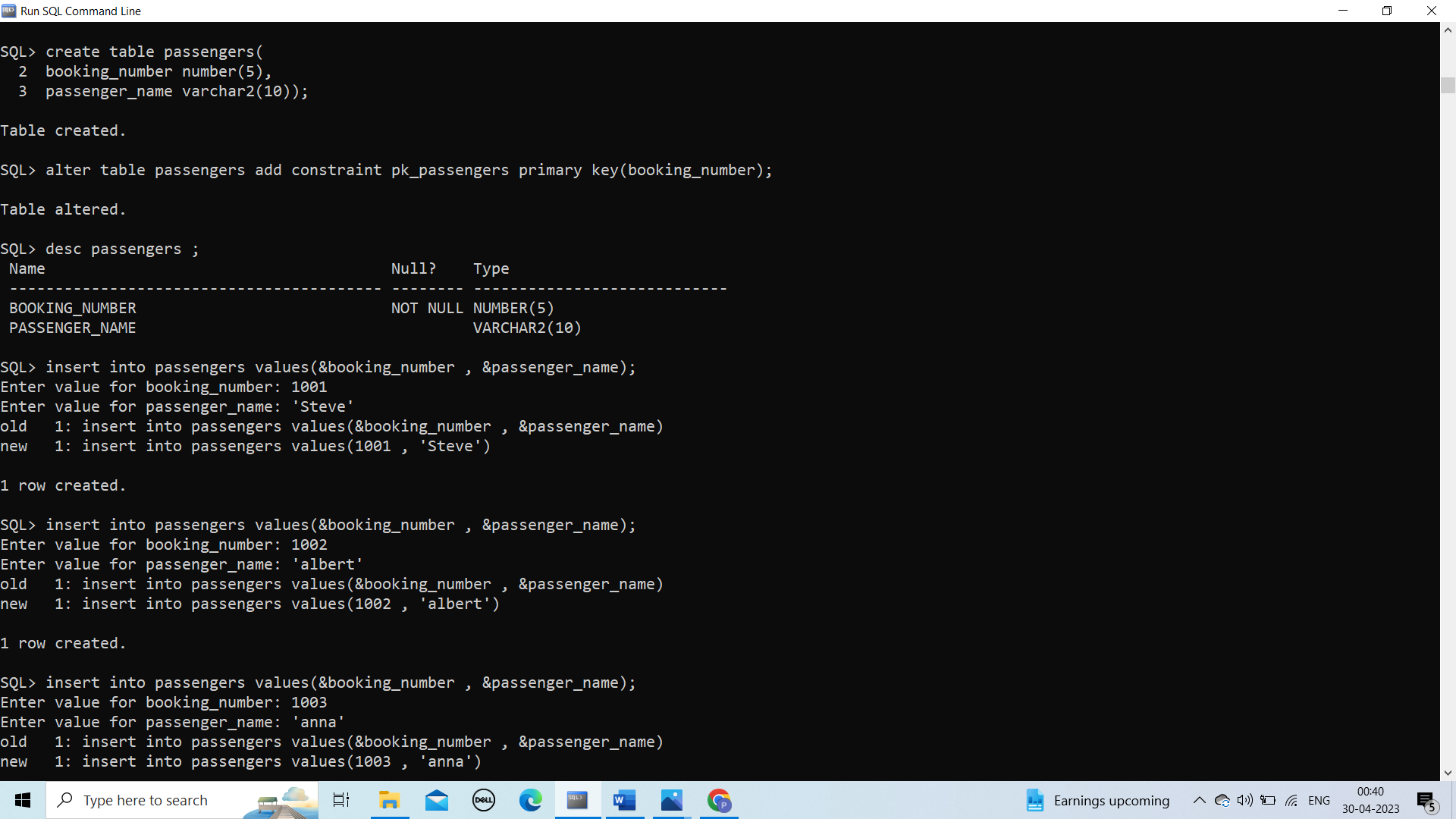
**Relational model :**

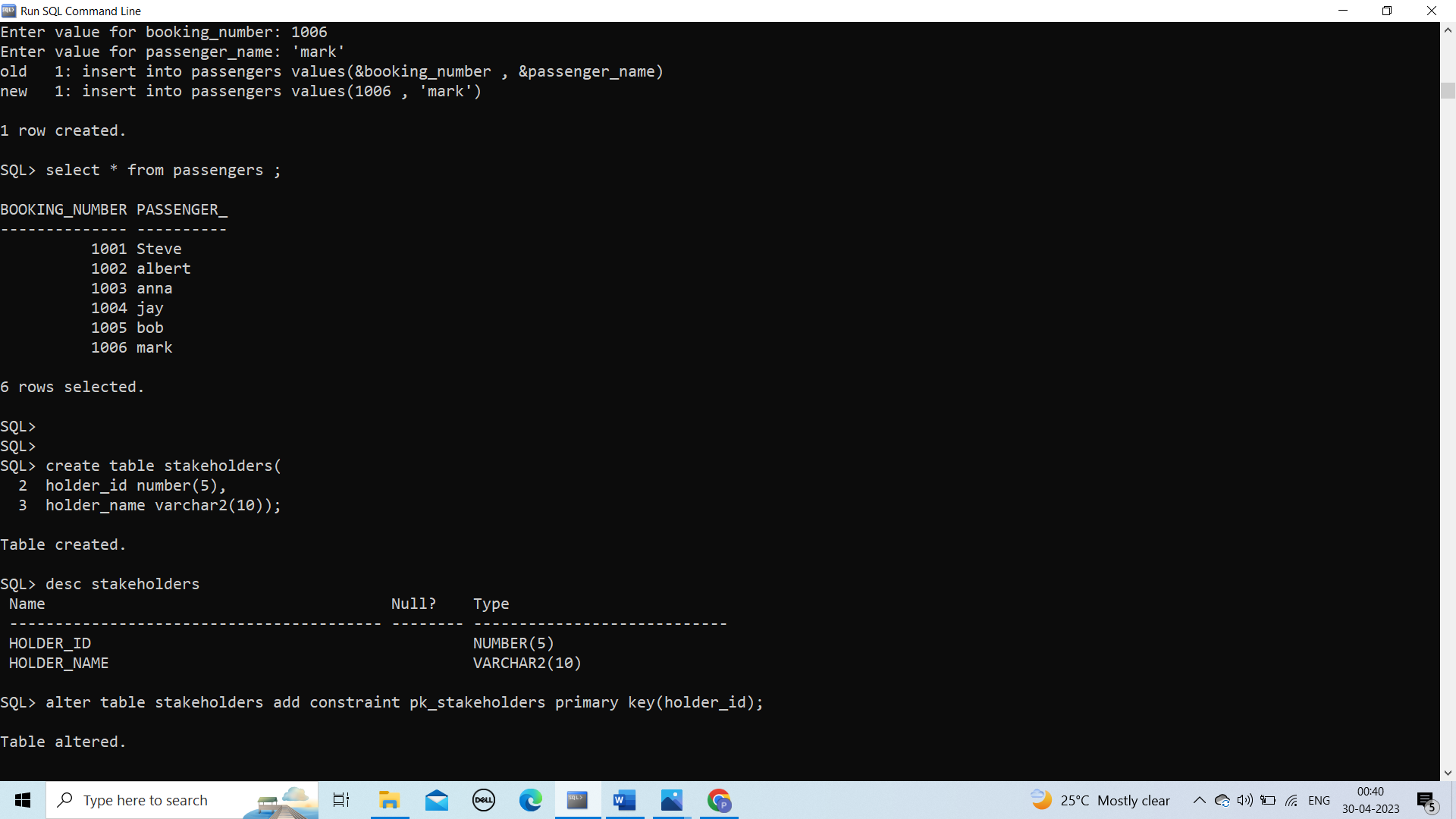
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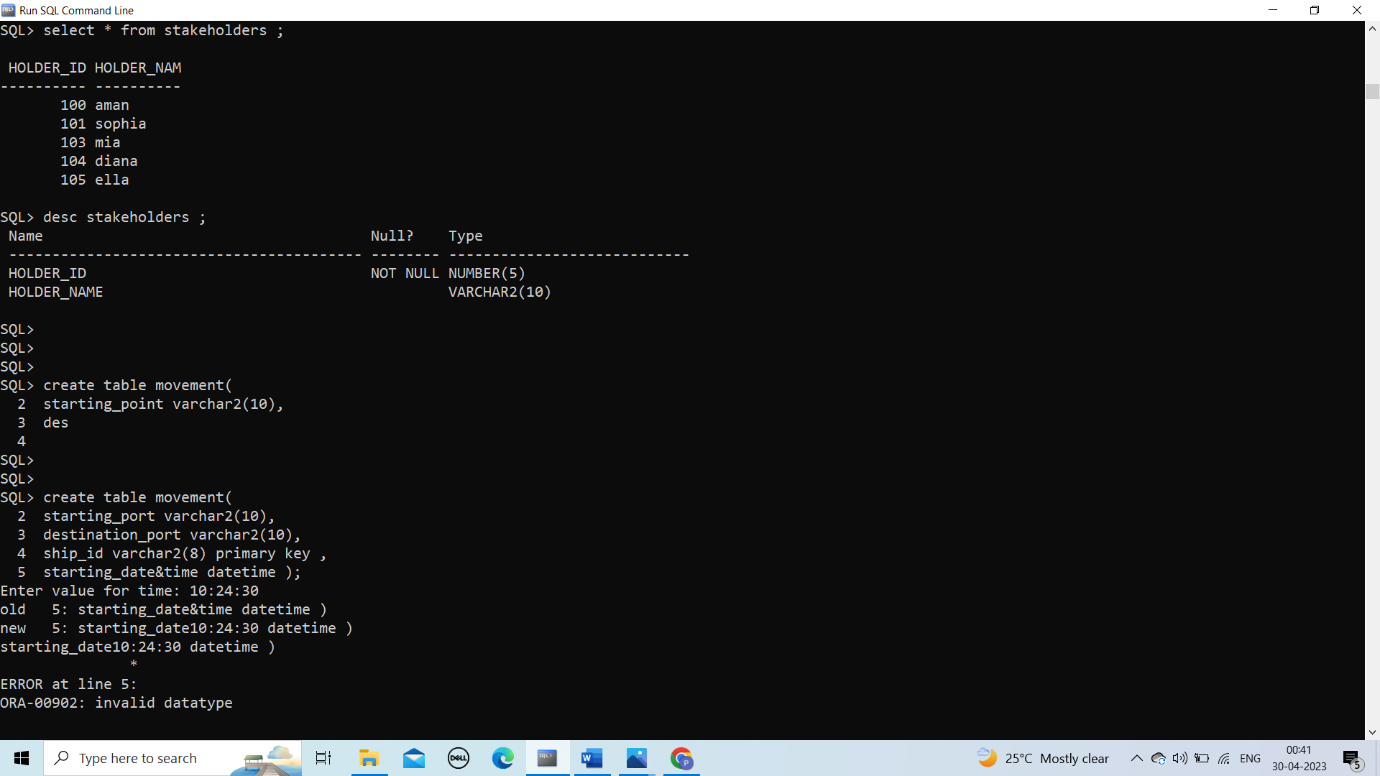
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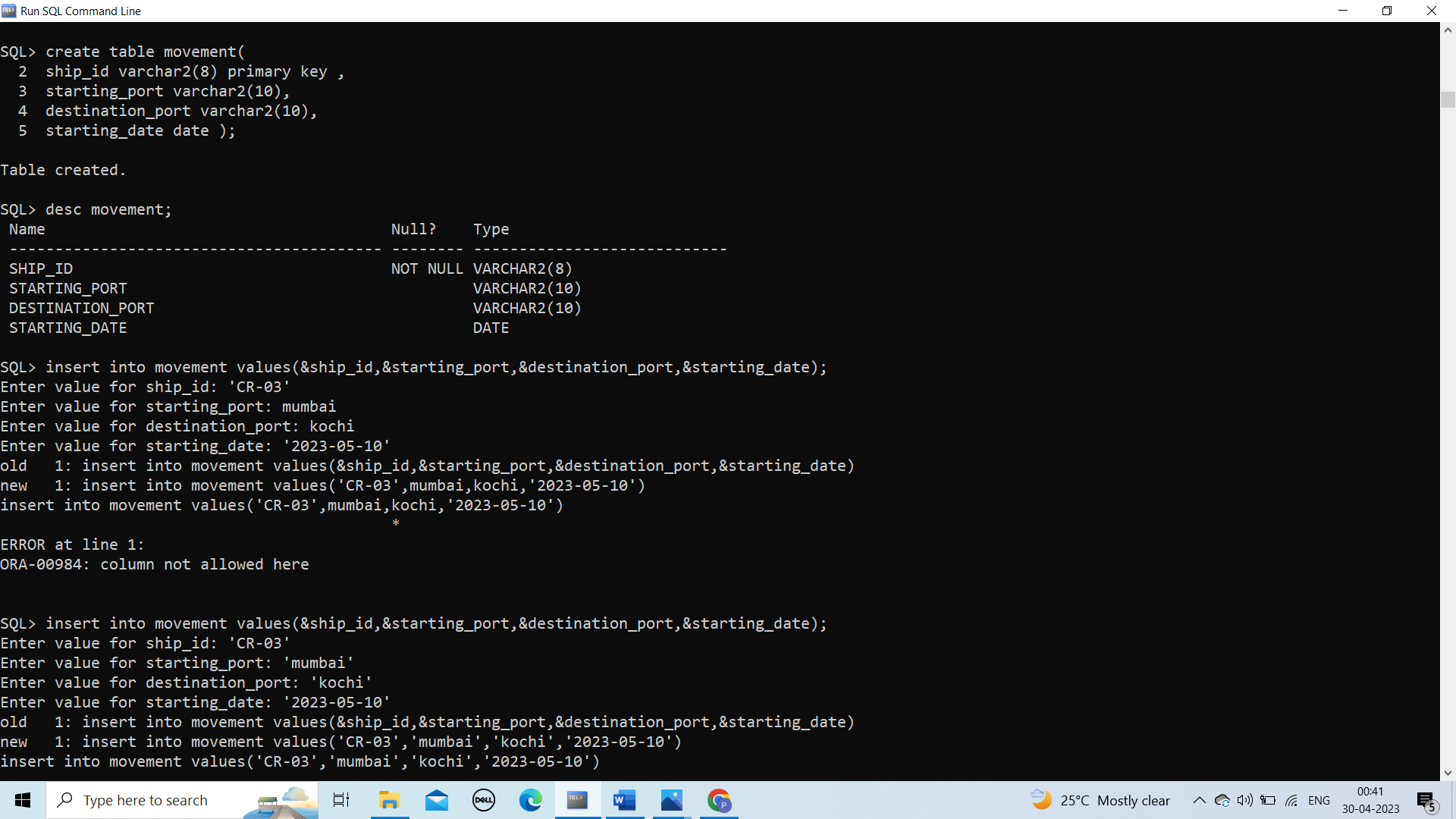
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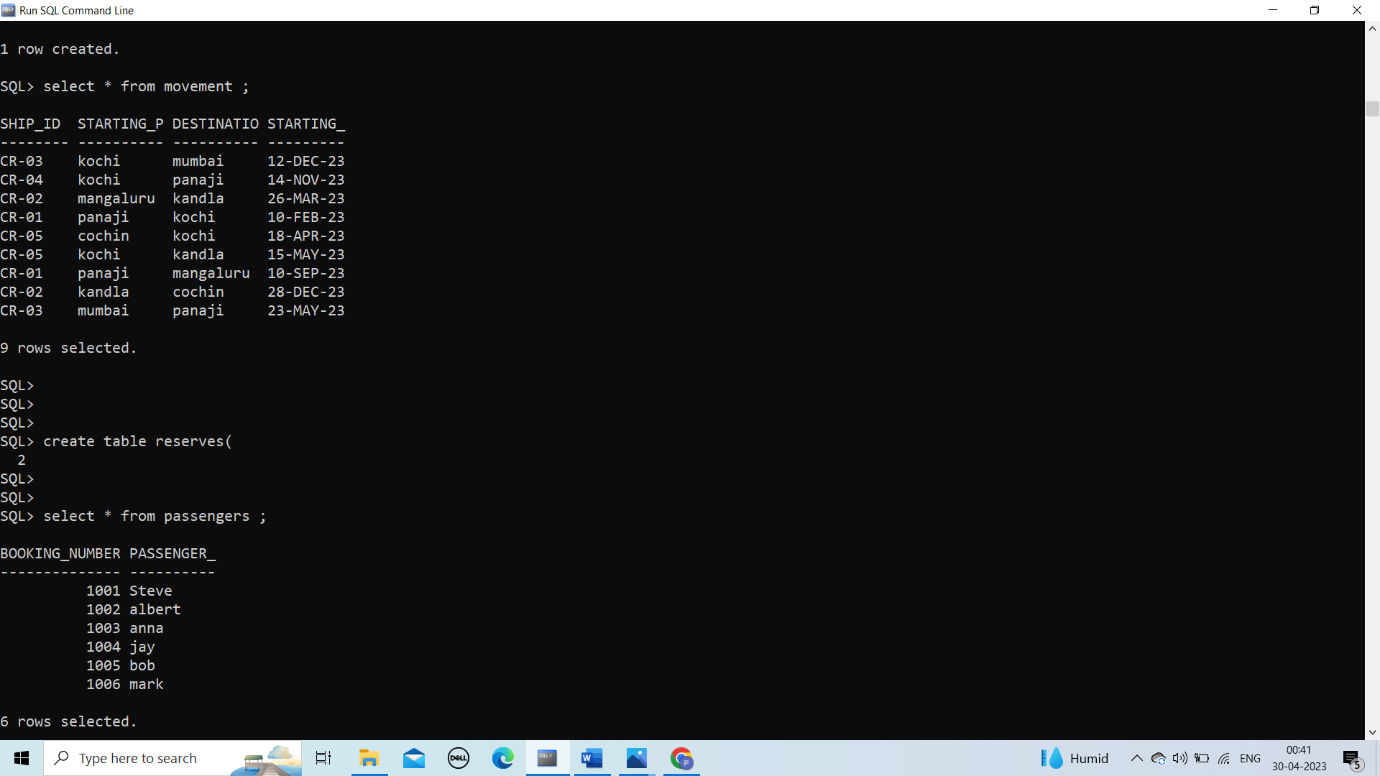
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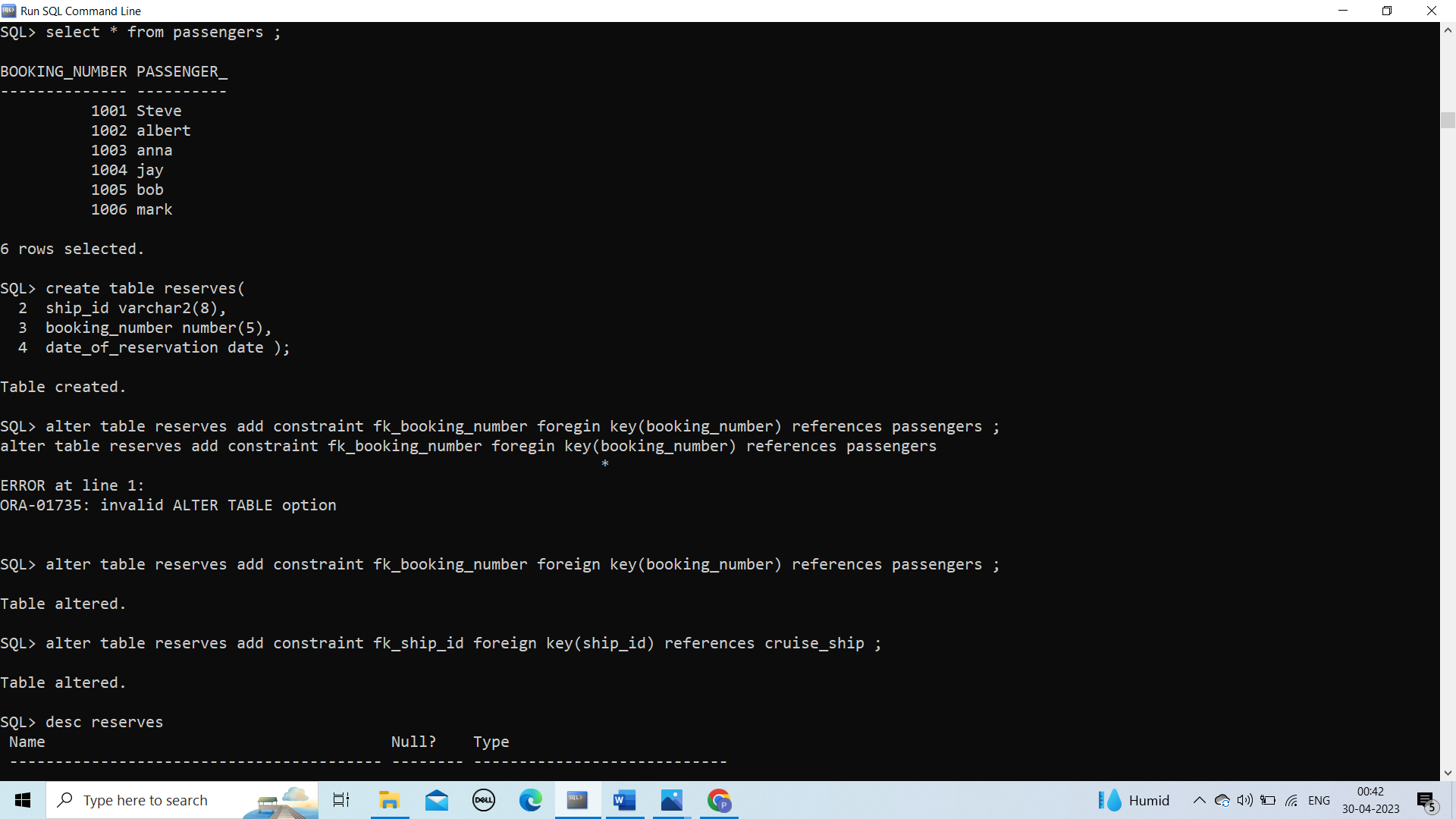
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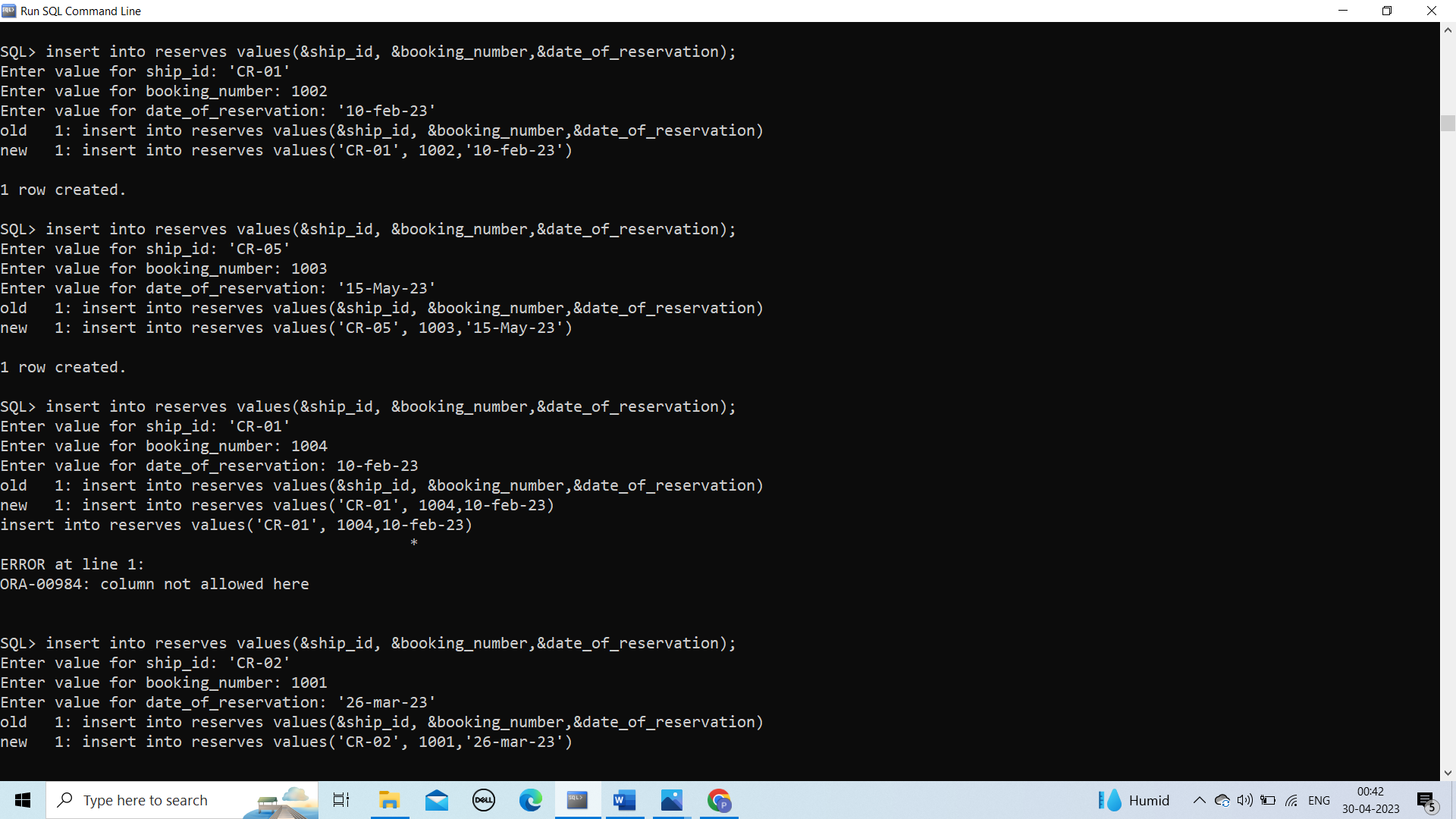
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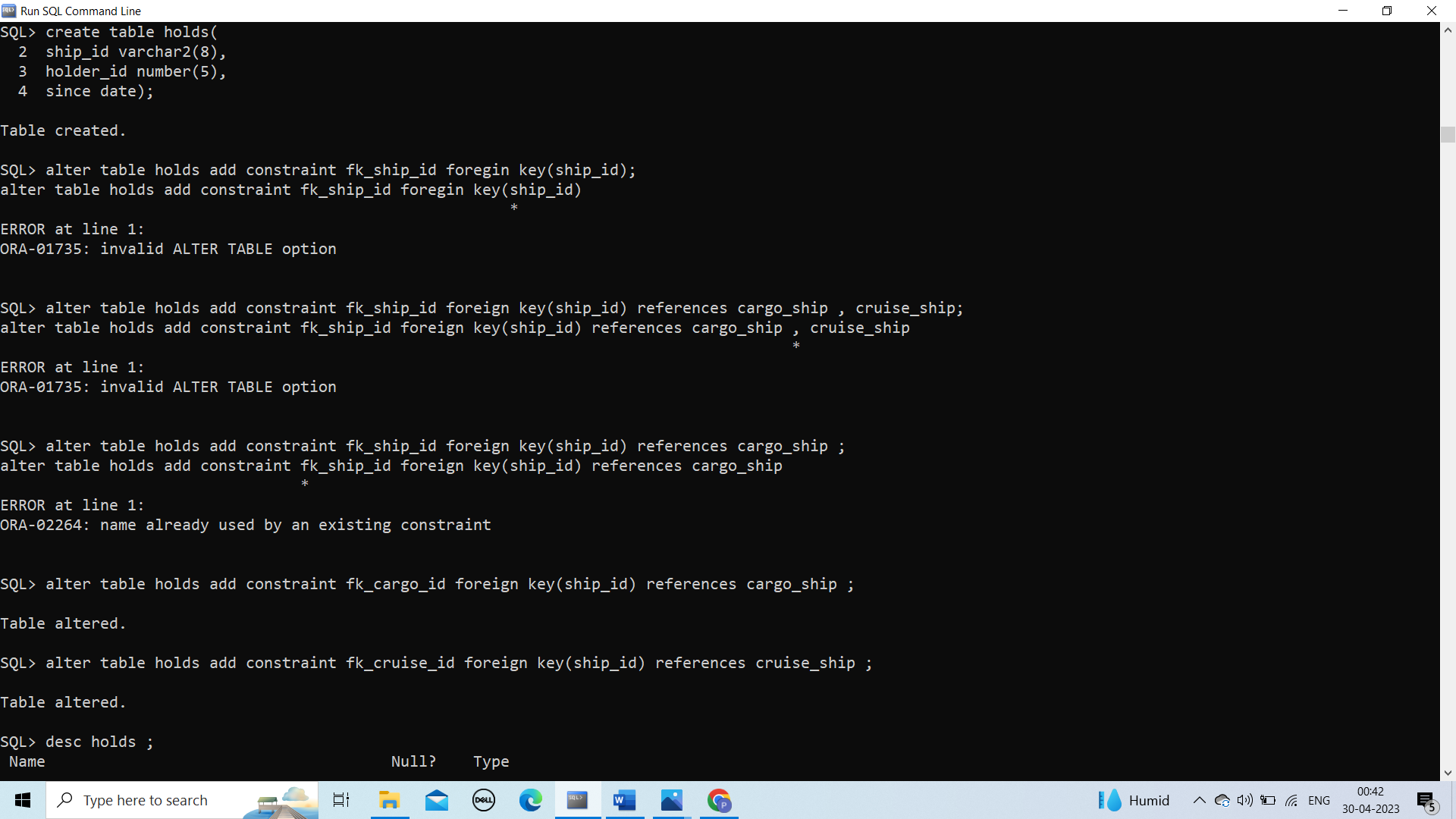
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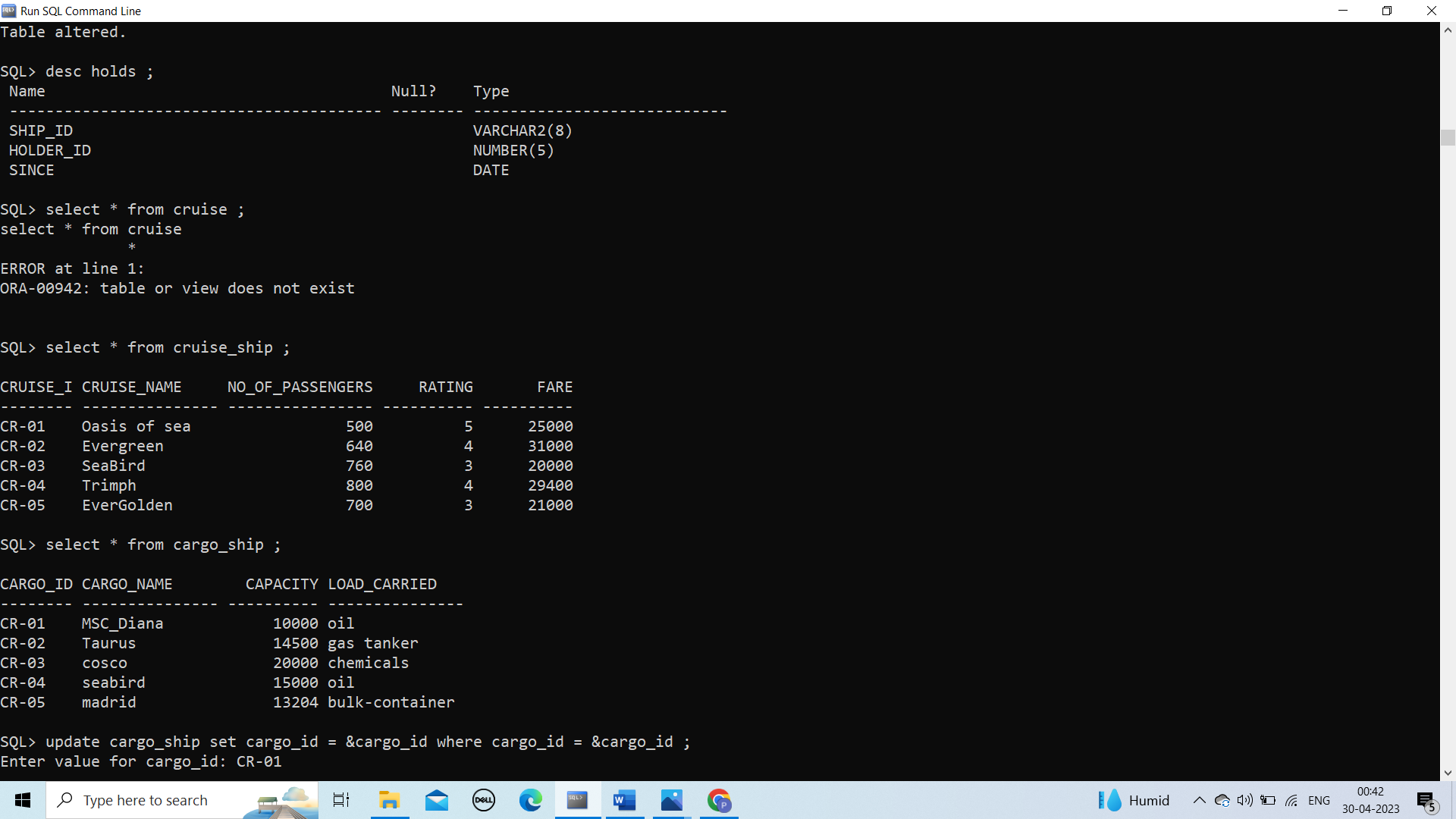
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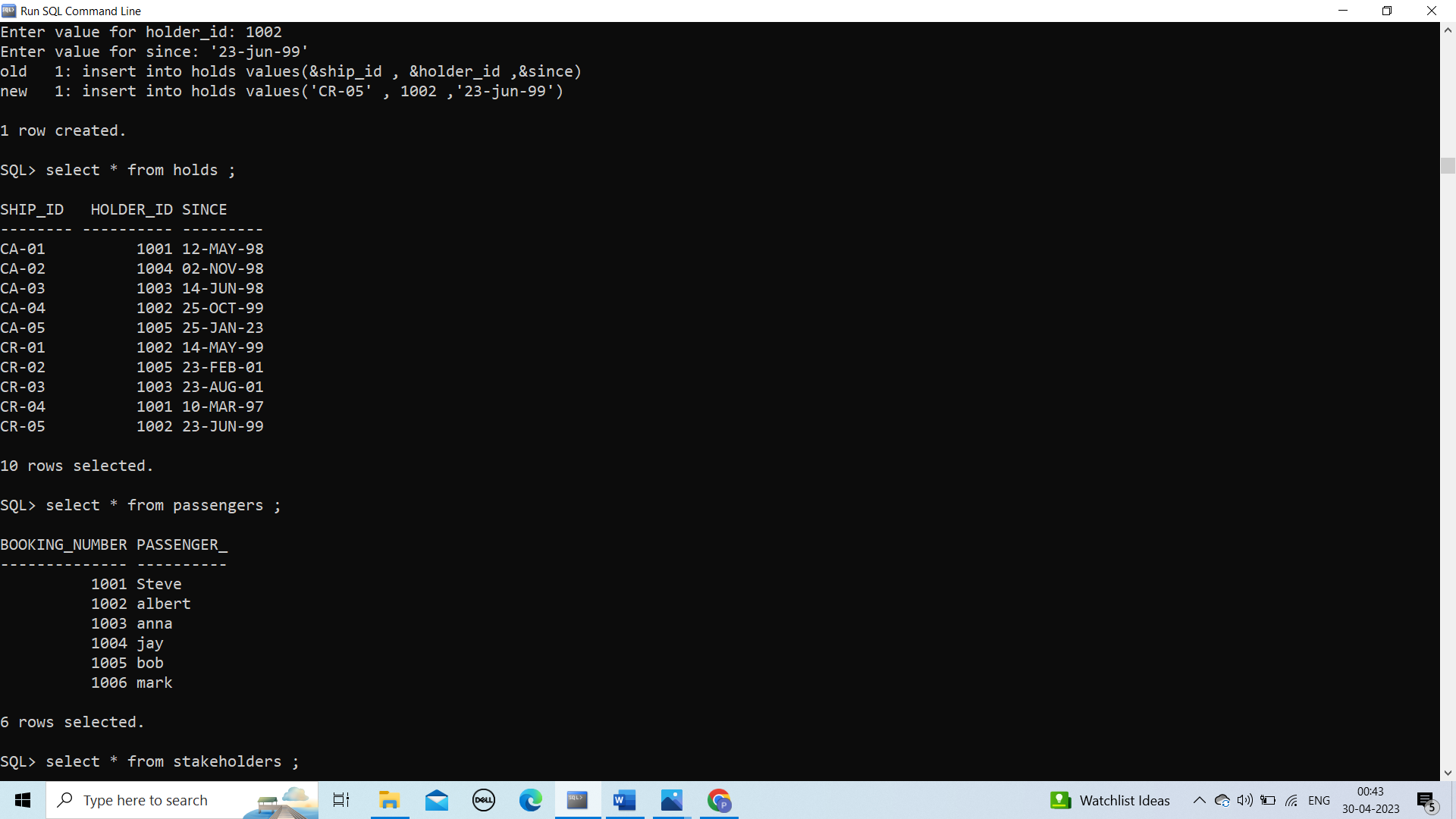
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Tables :

