Assignment-3

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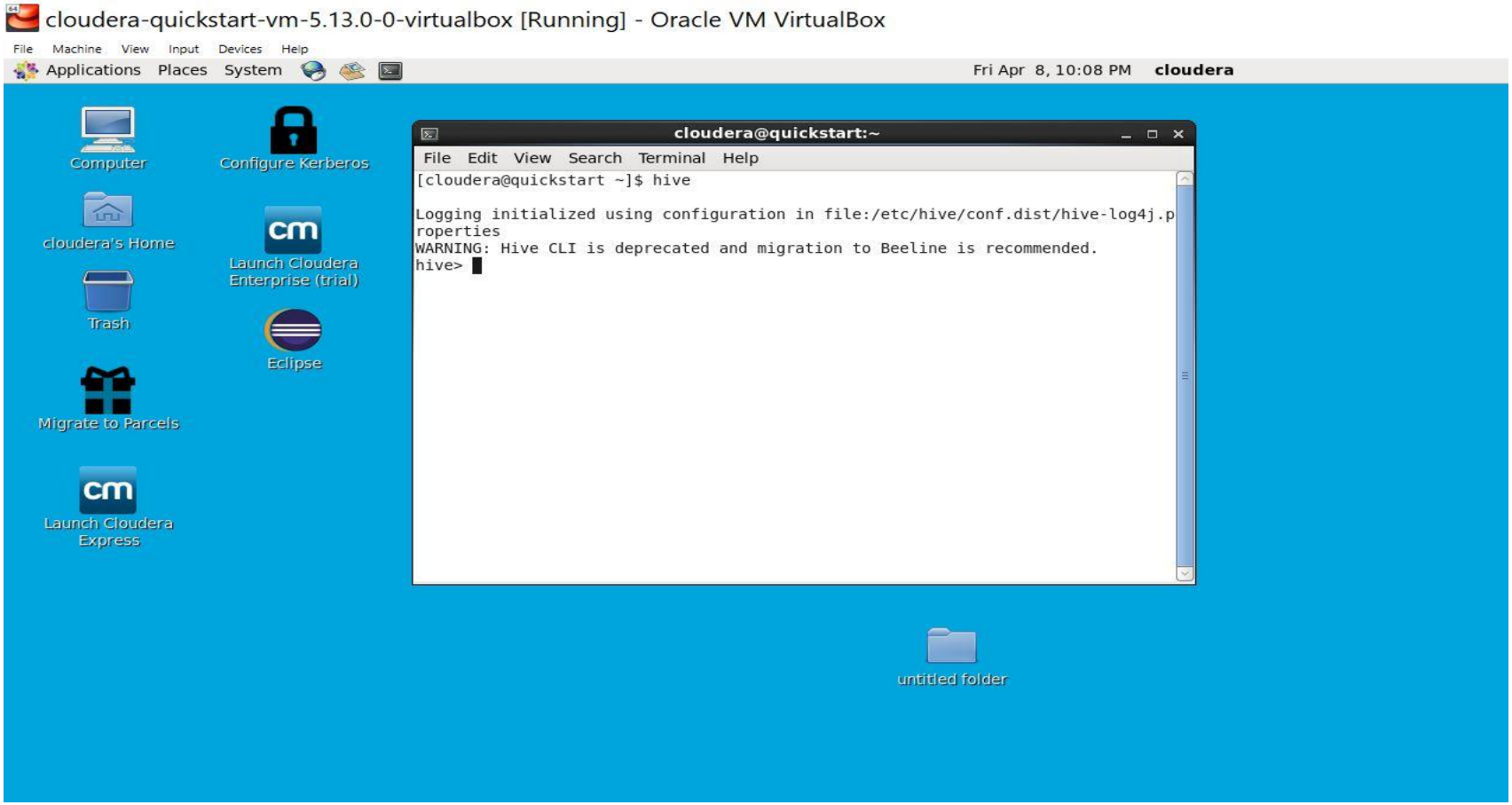
Assignment-3

Laboratory Exercise-05

1.Install Software of cloudera

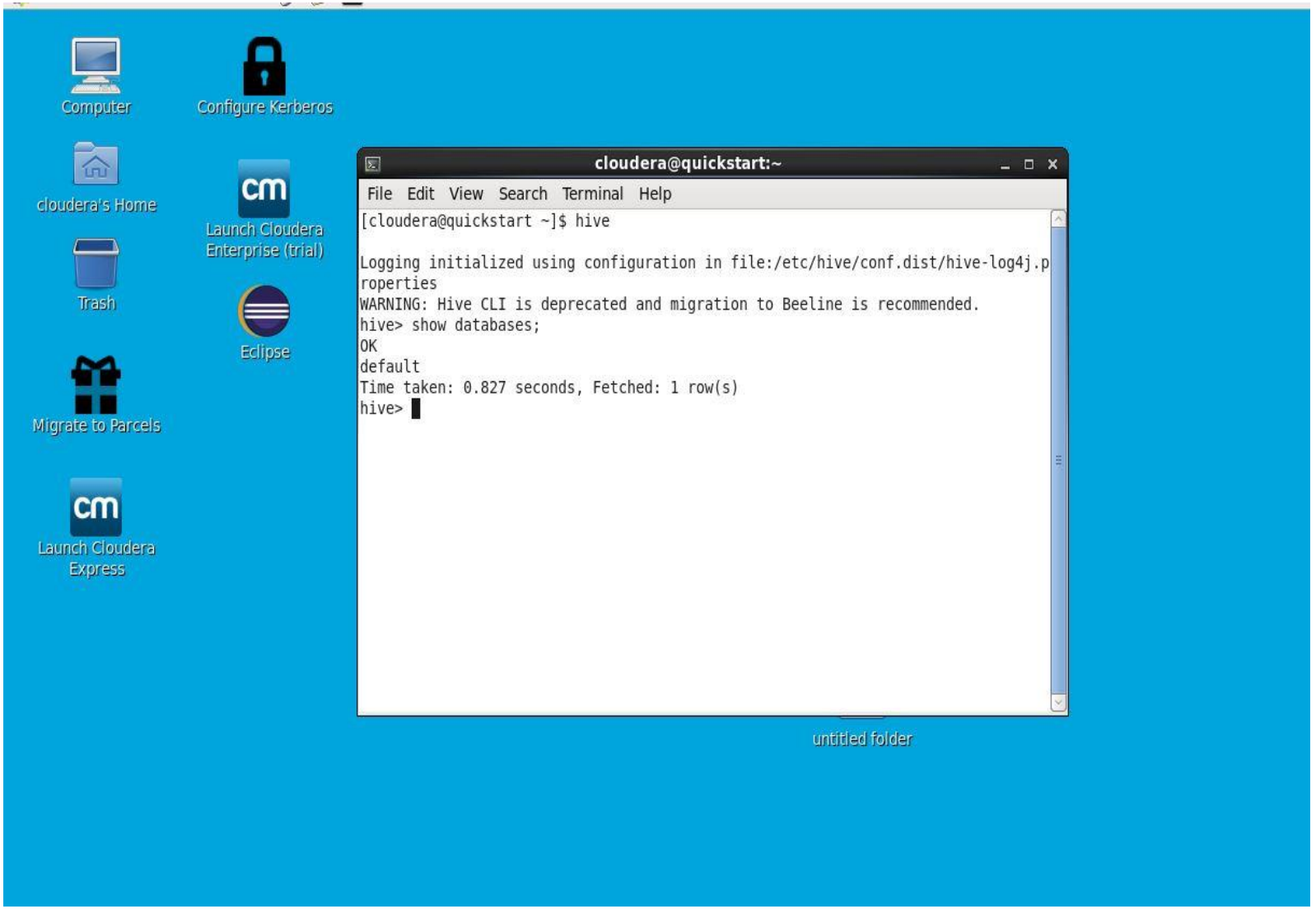
2. Run Hive from the command line.

---open command line and type as $ hive



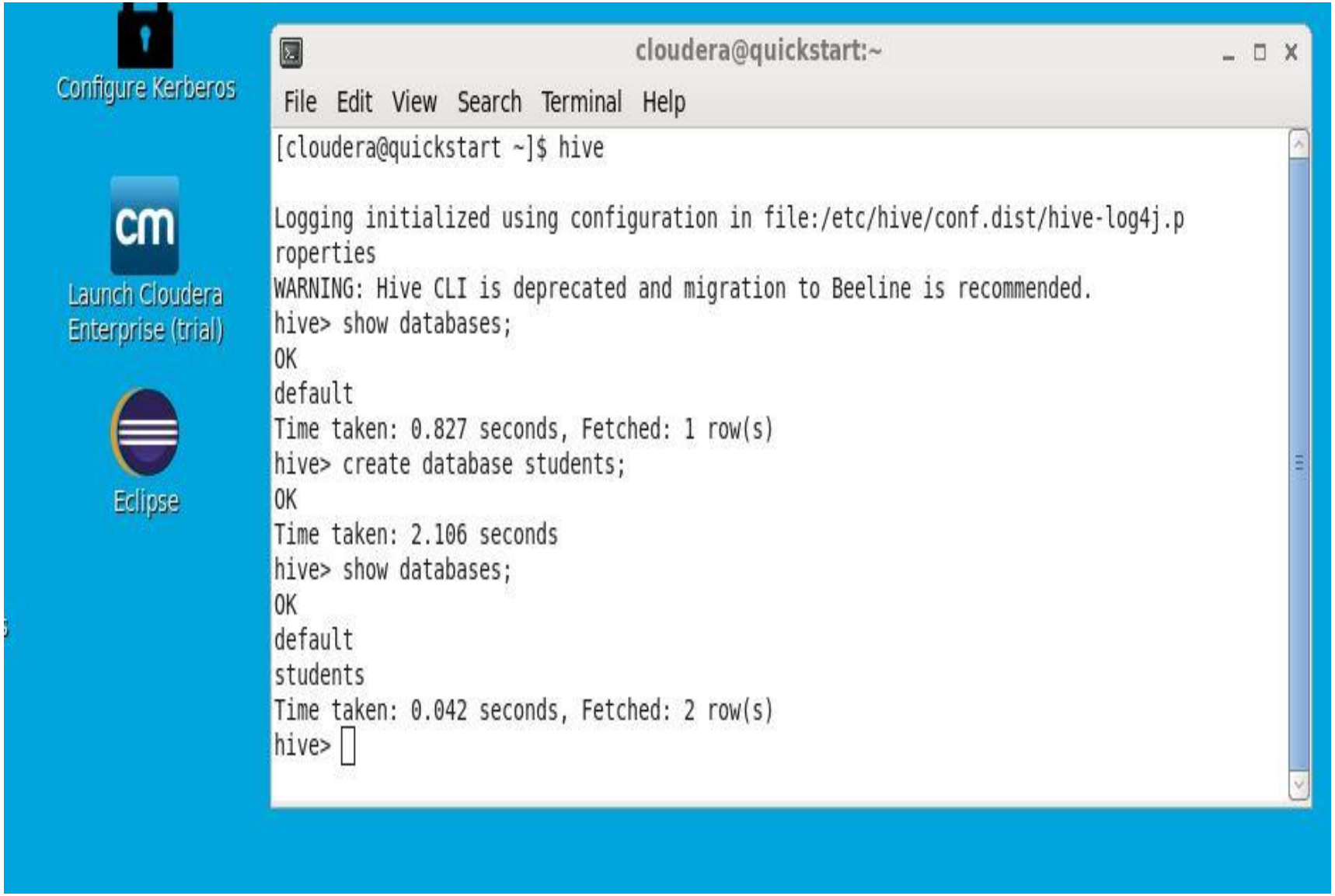
3. Display all databases:

-- On command line type as ‘show databases’;



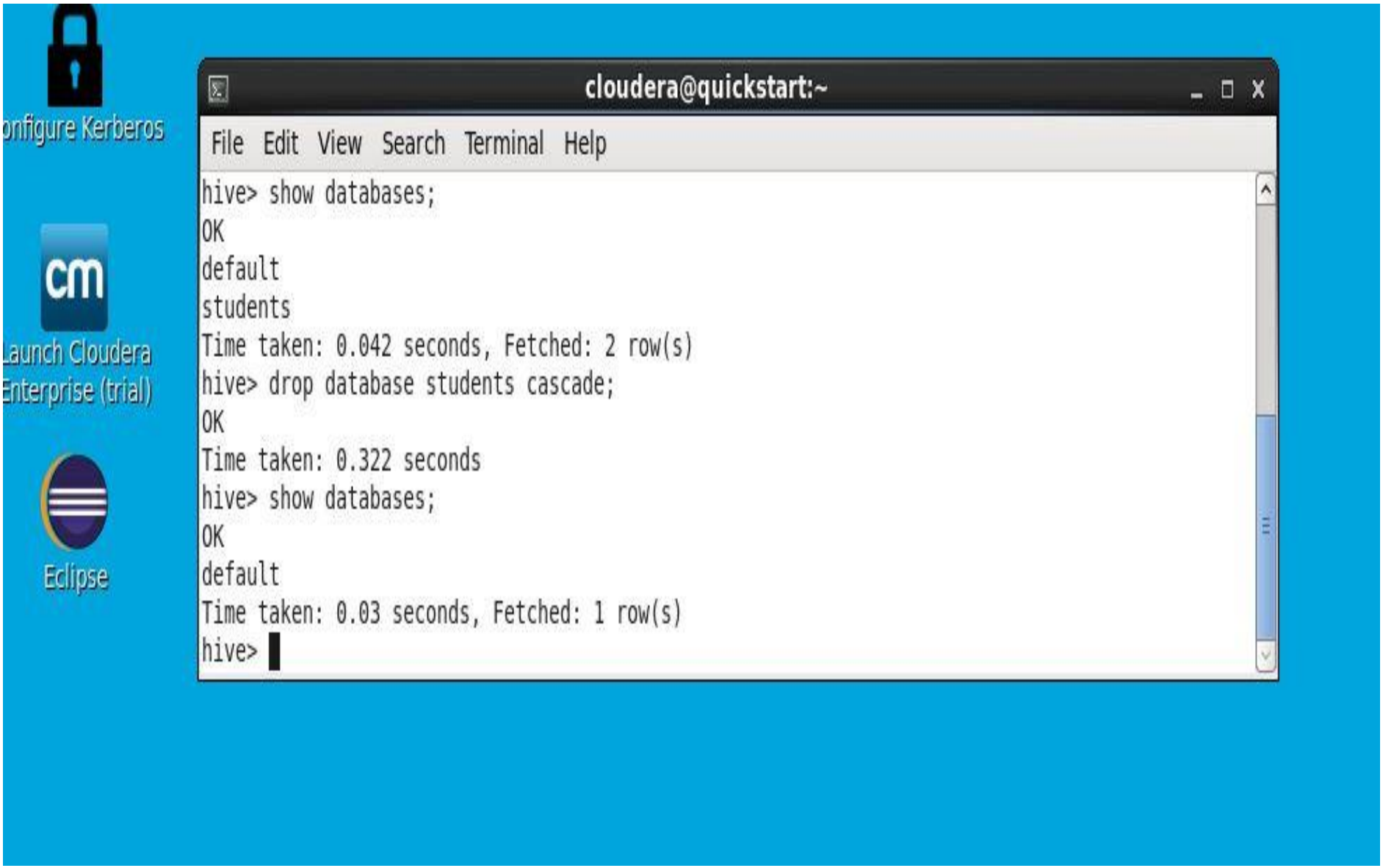
4. Create a DB named students

- Type on command line as ‘create database students’
- then you will get message as ‘ok’.
- For showing databases use command as ‘show database’



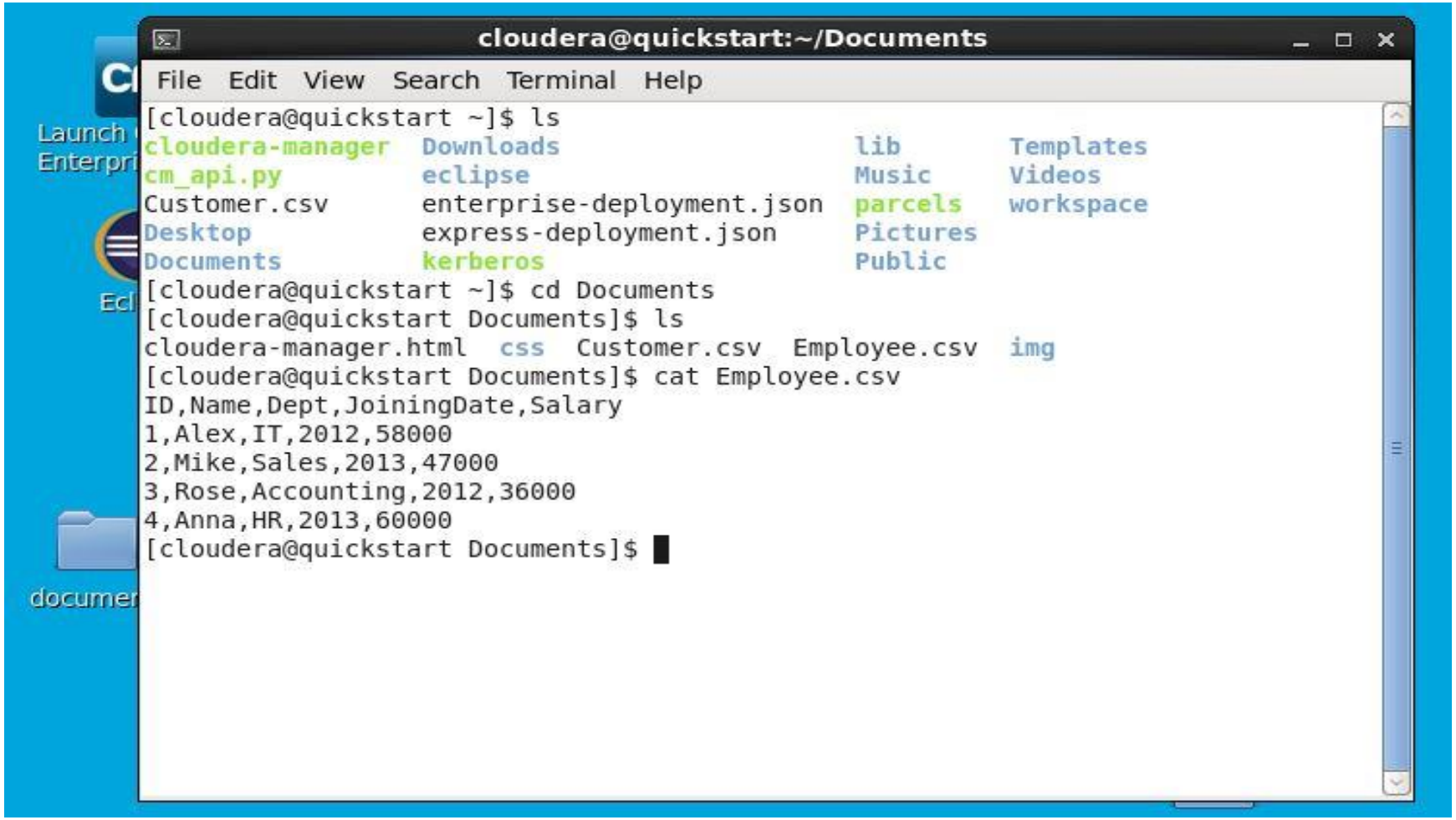
5. Dropping the DB students

- Type command as ‘drop database students’. Then student’s database is dropped.
- To obtain the result we will type command as ‘show databases’.



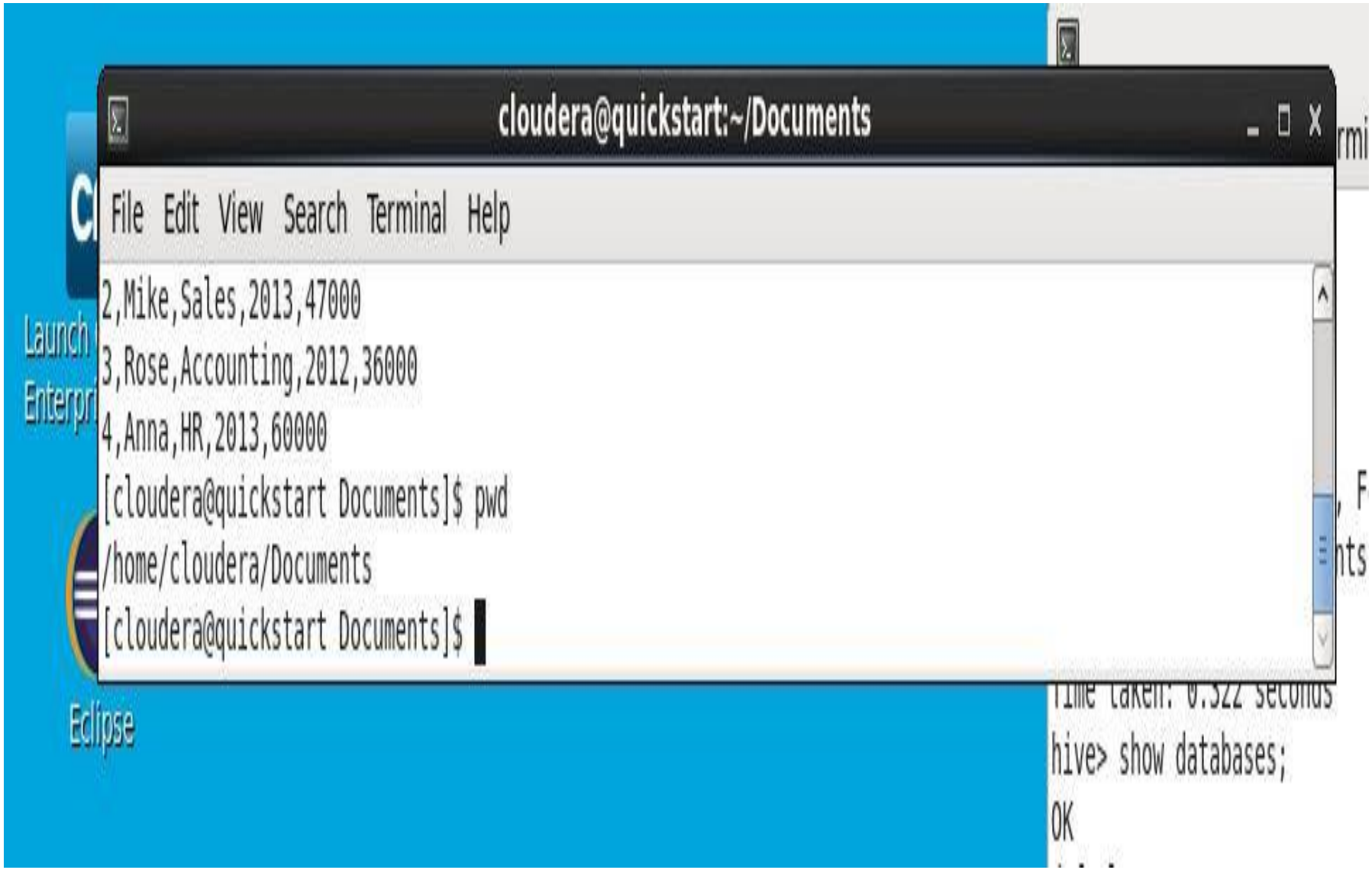
6. Display the Employee.csv

- We have a header line
- The data is comma-separated
- In Hadoop, you write the data once, and you read it many times. You must clean the data before it gets into the DB
- Do the Extract Transform Load (ETL)
- Schema: Integer, String, string, Integer, Integer



7. Display the full path of the source of data

- Type command as '$pwd'
- Here u get the full path of the source of data

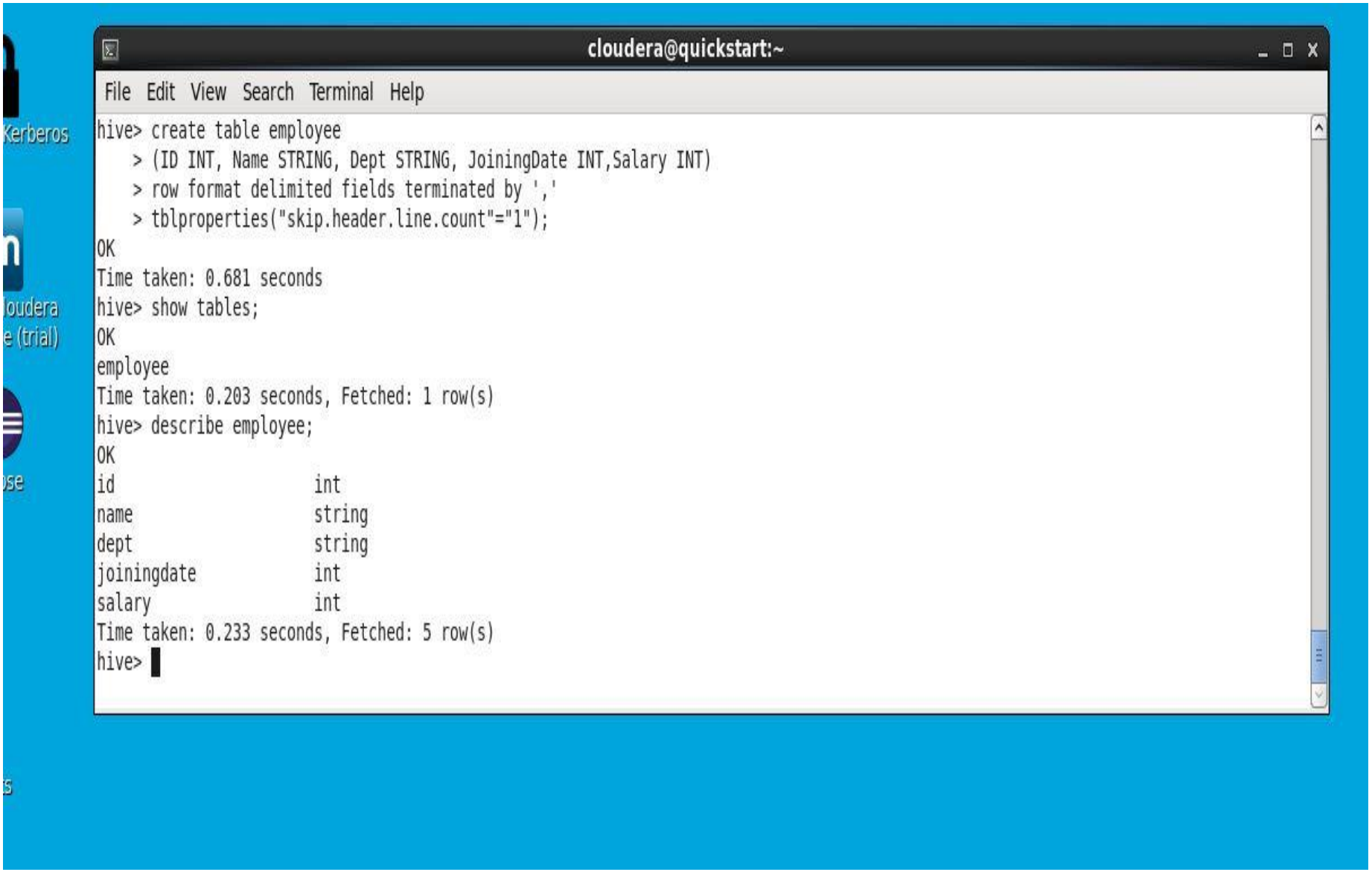


8. Create a table named employee

- Write the commands as
    1. Create table employee
    2. (ID INT, Name STRING, JoiningDate INT, Salary INT)
    3. row format delimited fields terminated by ‘,’
    4. tblproperties(“skip.header.line.count”=”1”);
- Then the table is created

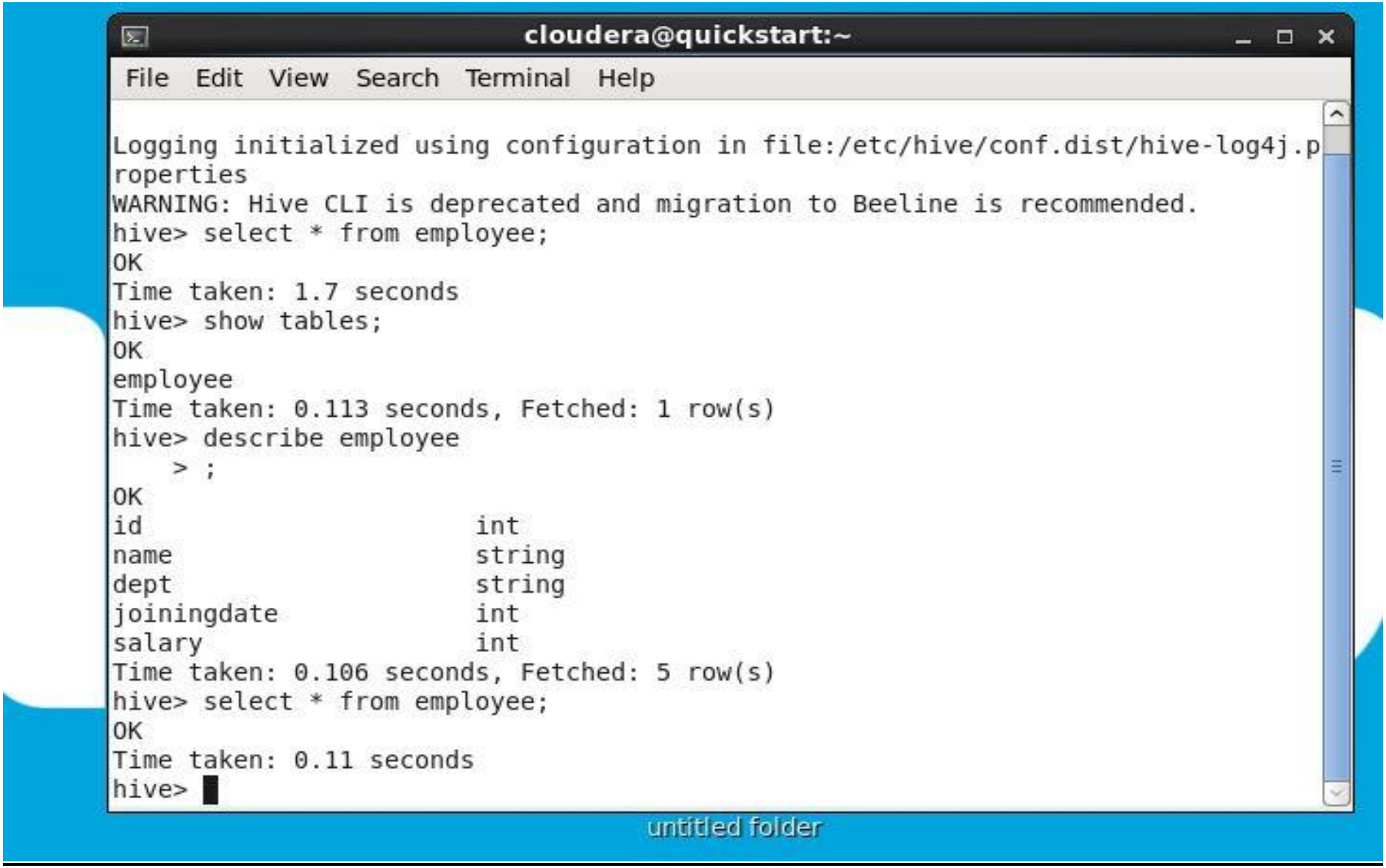
9. Verify the table employee

- For verifying the tables type command as ‘show tables ‘.
- For showing the data from table employee – ‘describe employee’.



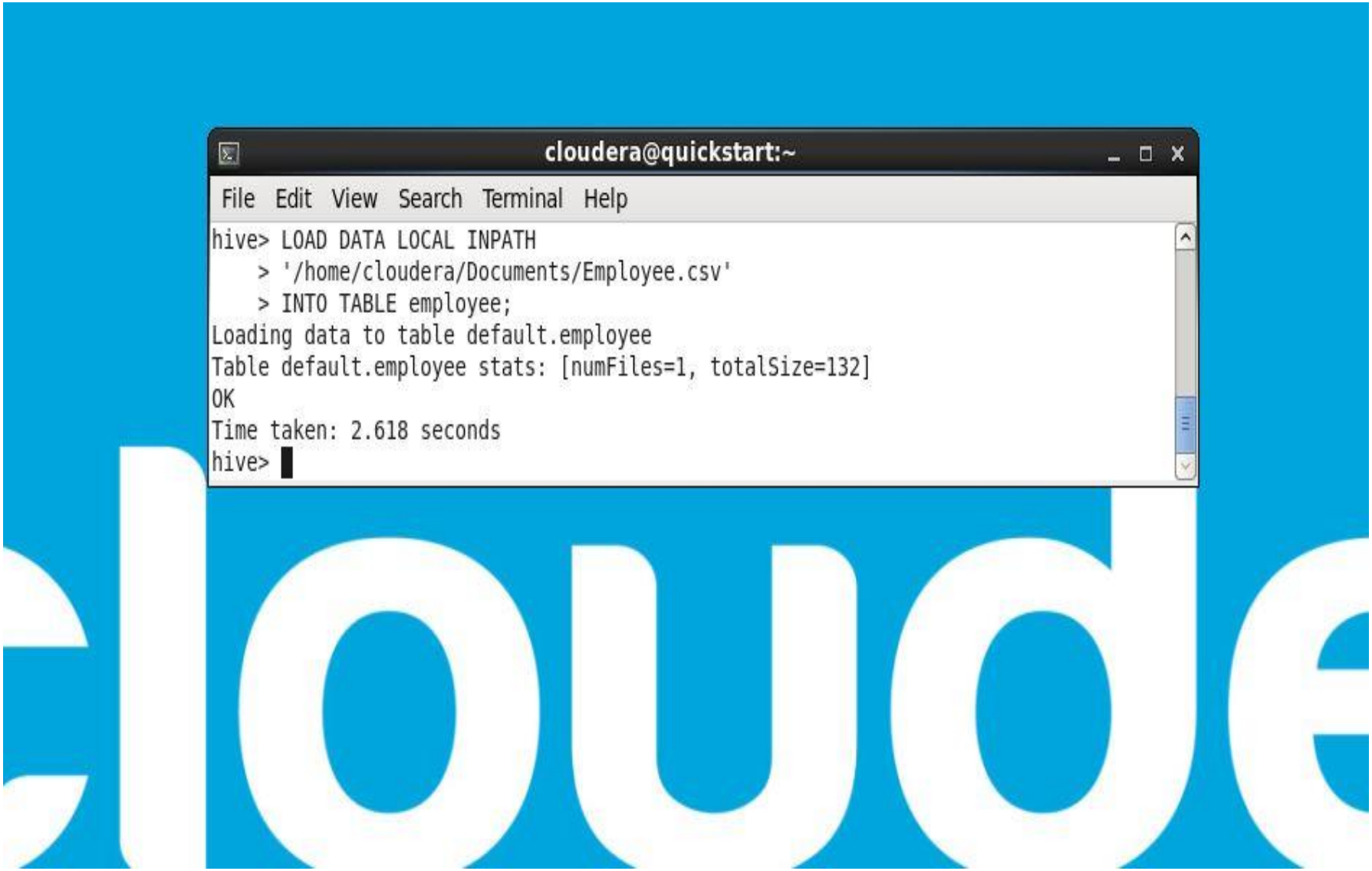
10. Display the data in the table

- For displaying all data from table type command as ‘select * from employee;’.



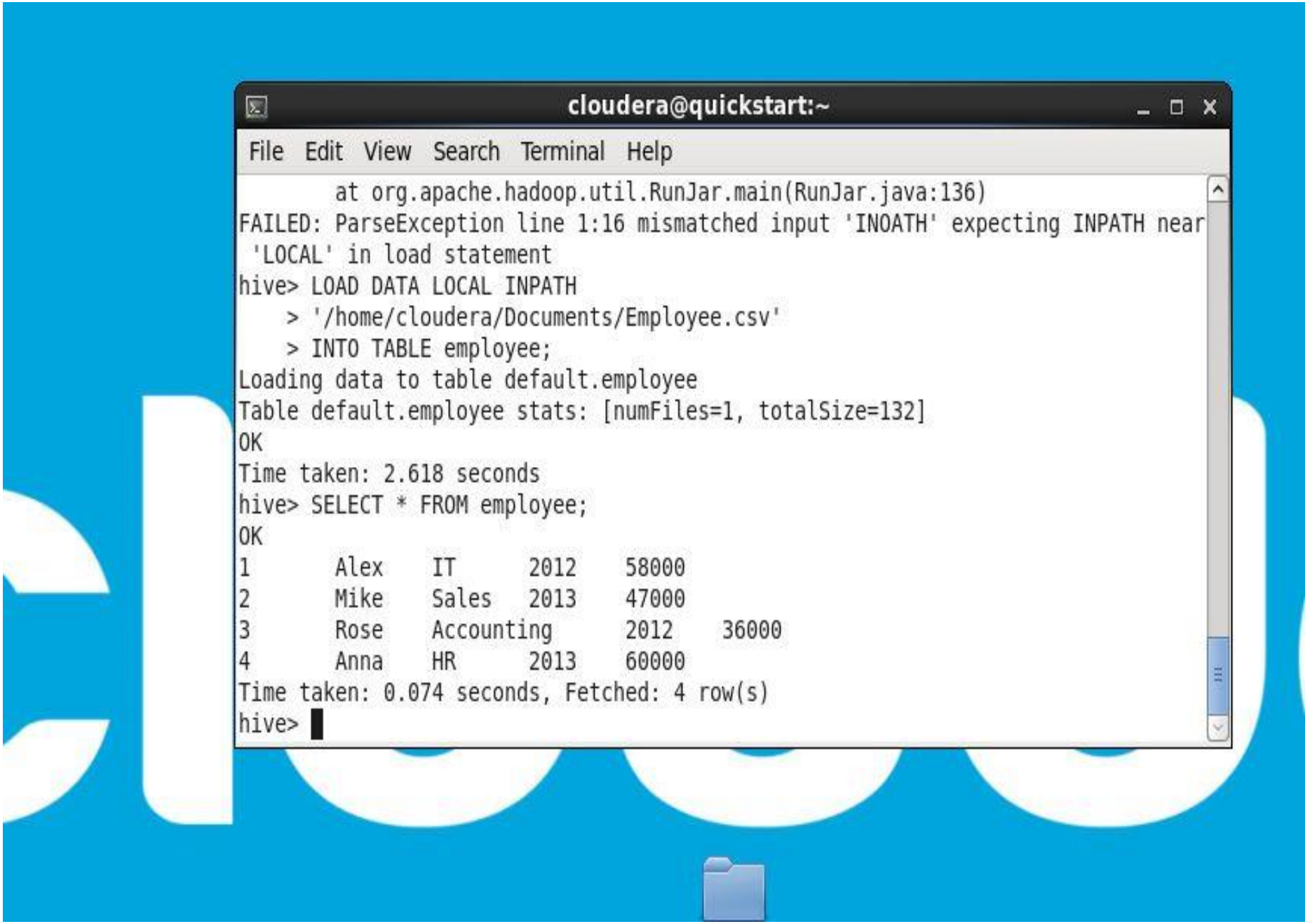
11. Loading the data to Hive

- Type command as 'LOAD DATA LOACAL INPATH
  '/HOME/CLODERA/Documents/Employee.csv'
  INTO TABLE employee;'



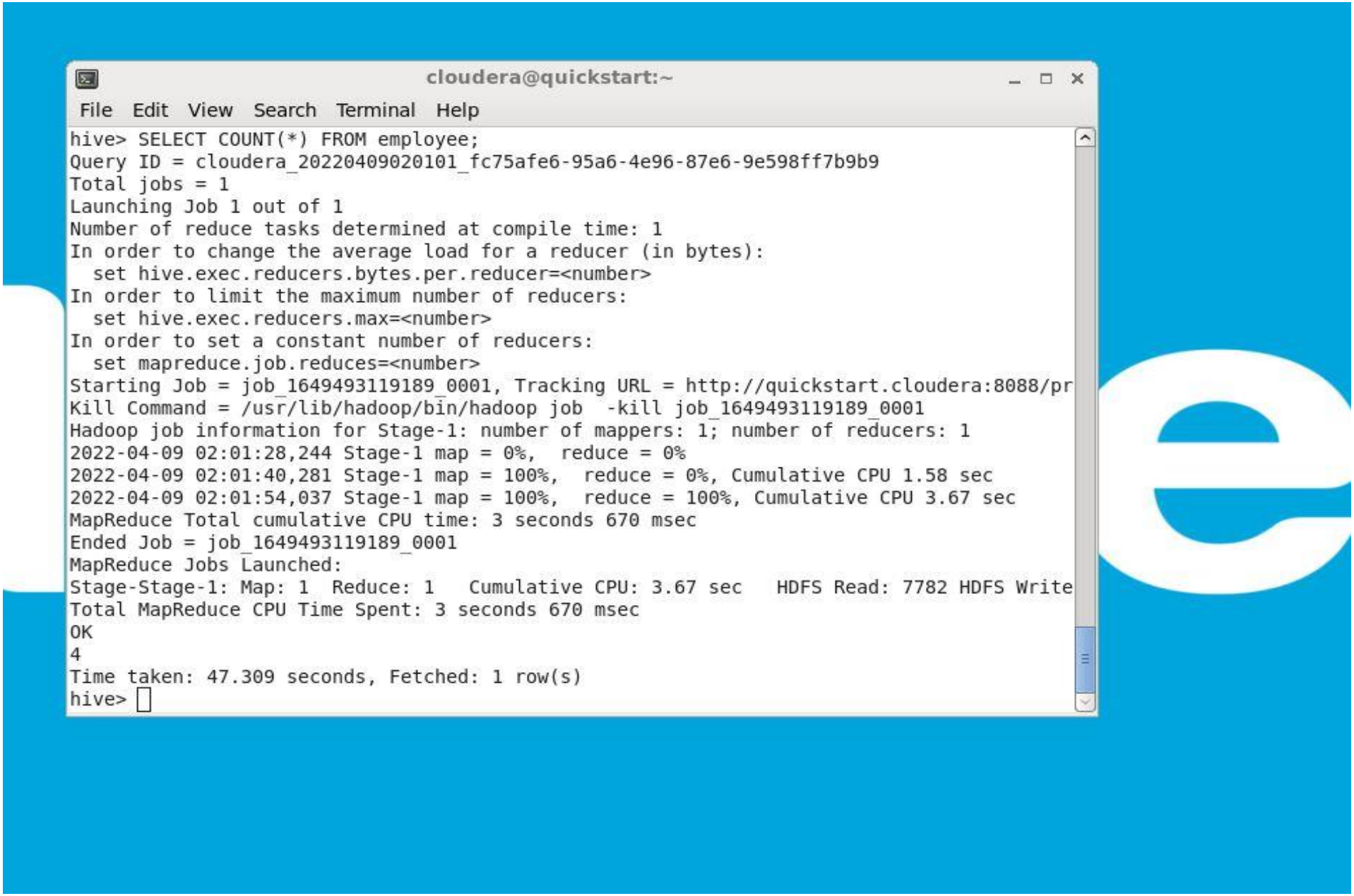
12. Display the data

- Select * from employee;



13. Try the full Map Reduce Phase by the Count(*)

Select count(*) from employee;

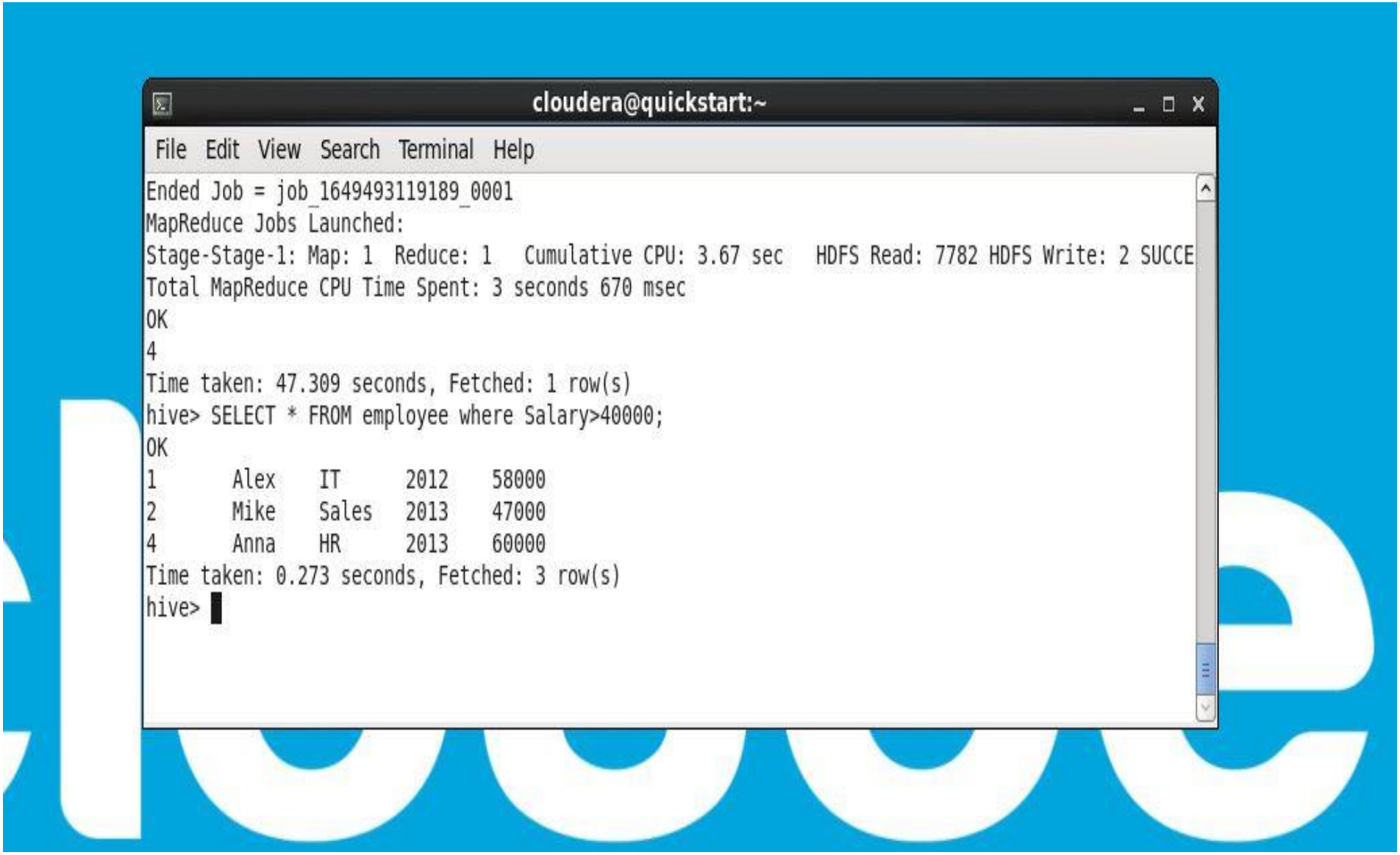


14. More Enhanced query

select *

from employee

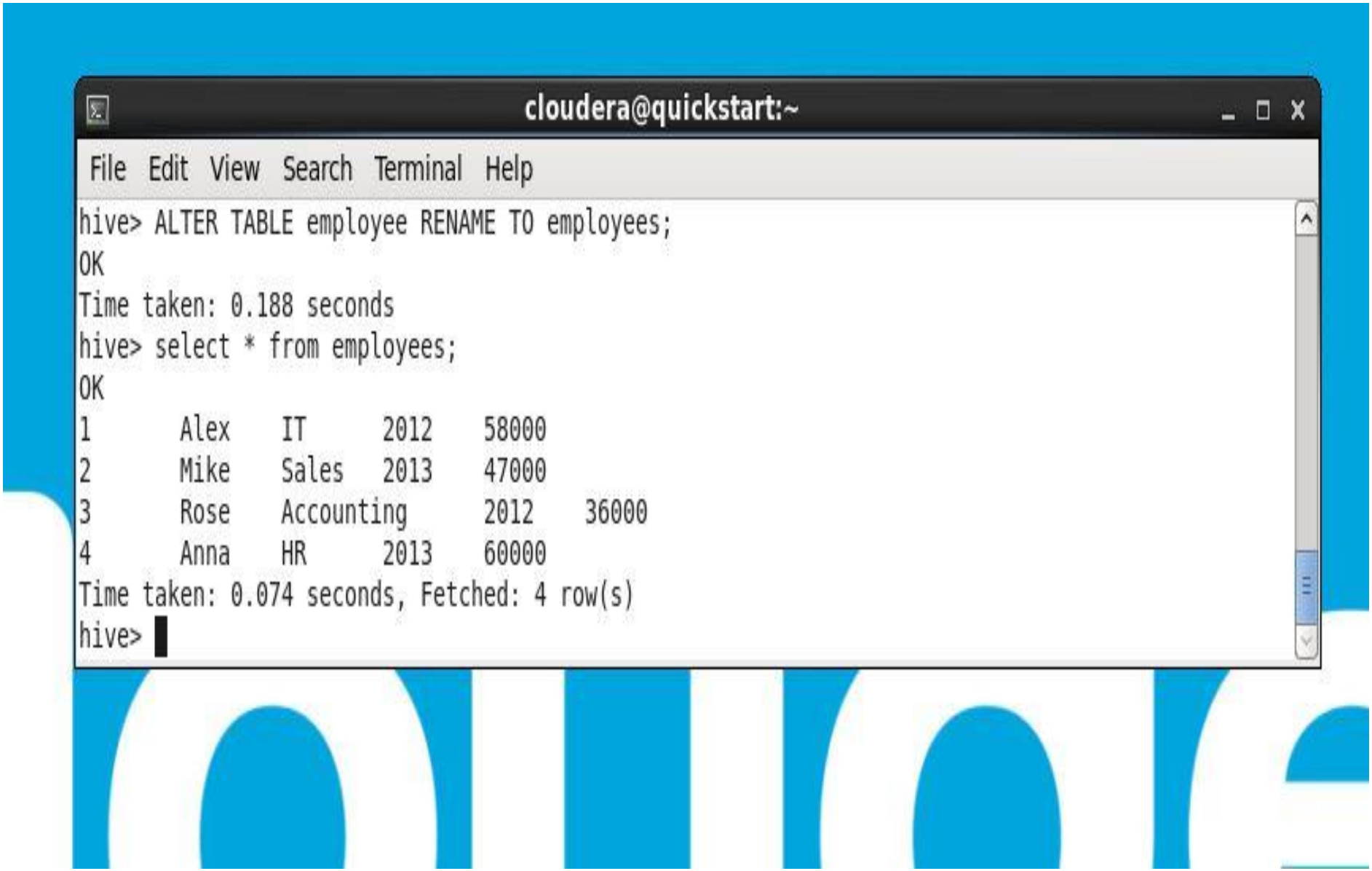
where salary>40000;



15. Renaming the table

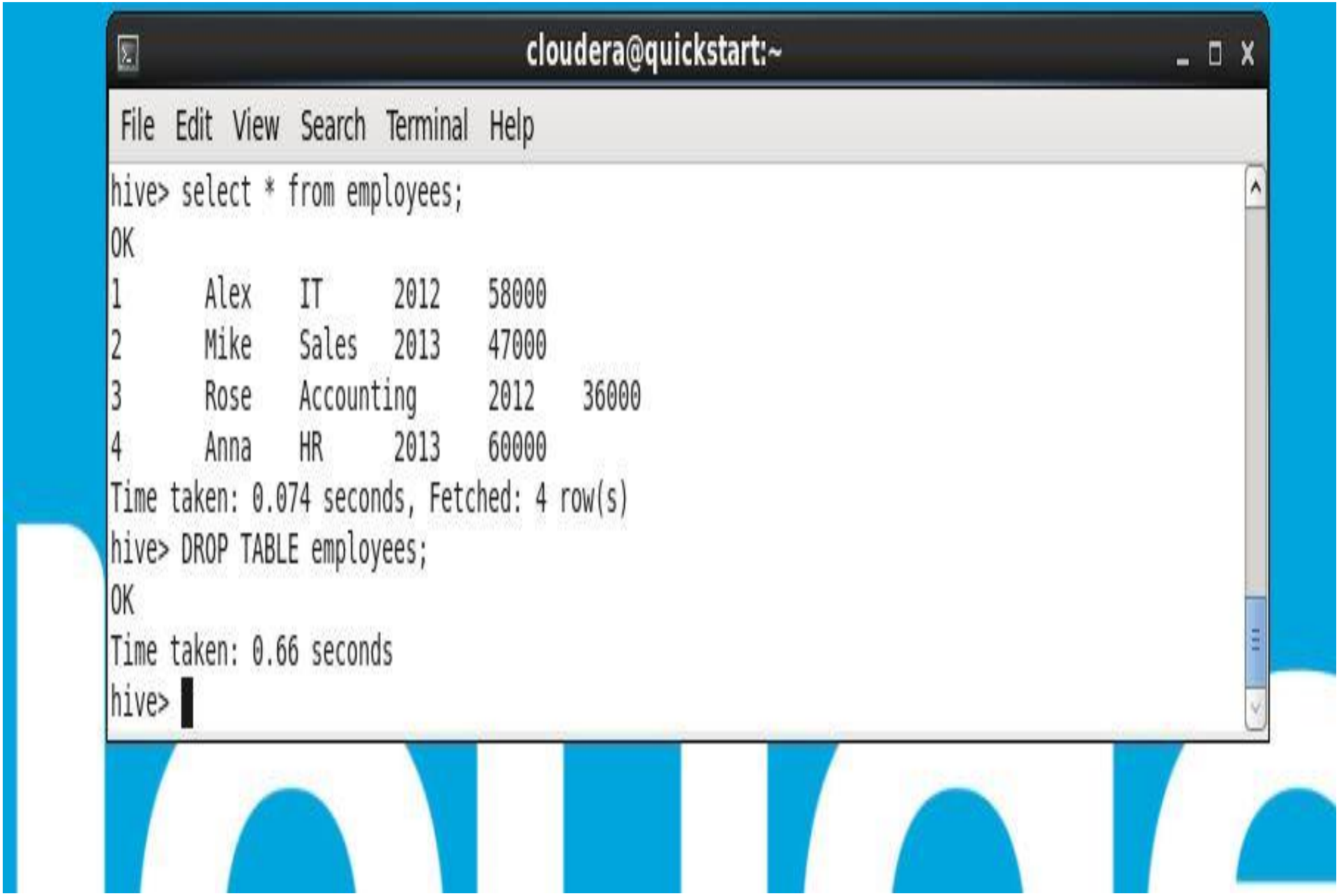
ALTER TABLE employee

RENAME TO employees;



16. Drop the table employees

Drop table employees;



17. Create the table order

- We have to create the table called order.

Create table order

(id INT, orderdateDate DATE, Cid INT,Amount Float)

Row format delimited fields terminated by ‘,’

Tbl properties(“skip.header.line.count”=”1”);

To load data in the table we have to use command

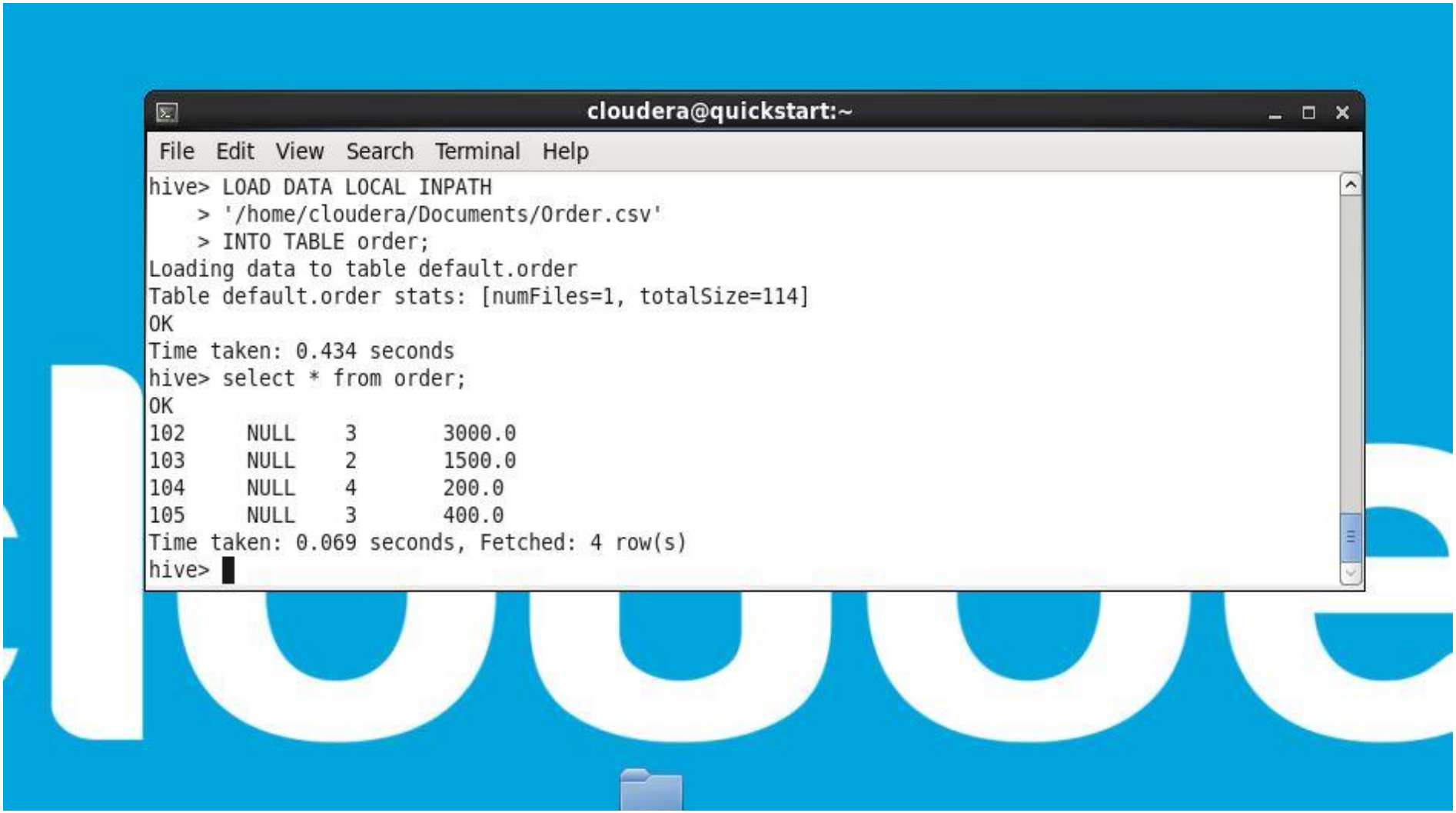
LOAD DATA LOCAL INPATH

‘/home/cloudera/Documents/Order.csv’

INTO TABLE order;

Then data is loaded in file and the for showing the data we have to use

Select * from order;



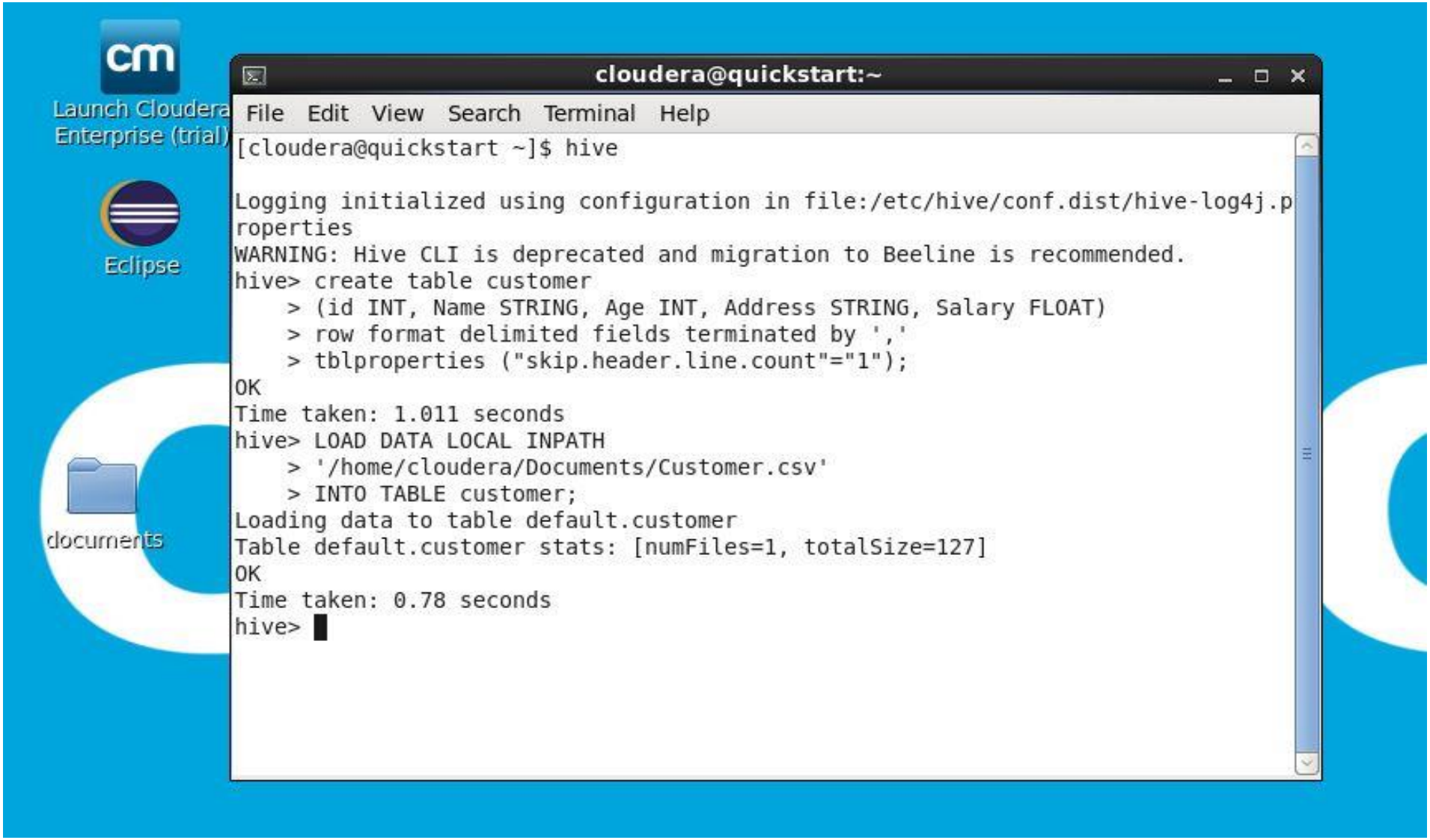
18. Same for table Customer

Create table order

(id INT, orderdateDate DATE, Cid INT,Amount Float)

Row format delimited fields terminated by ‘,’

Tbl properties(“skip.header.line.count”=”1”);

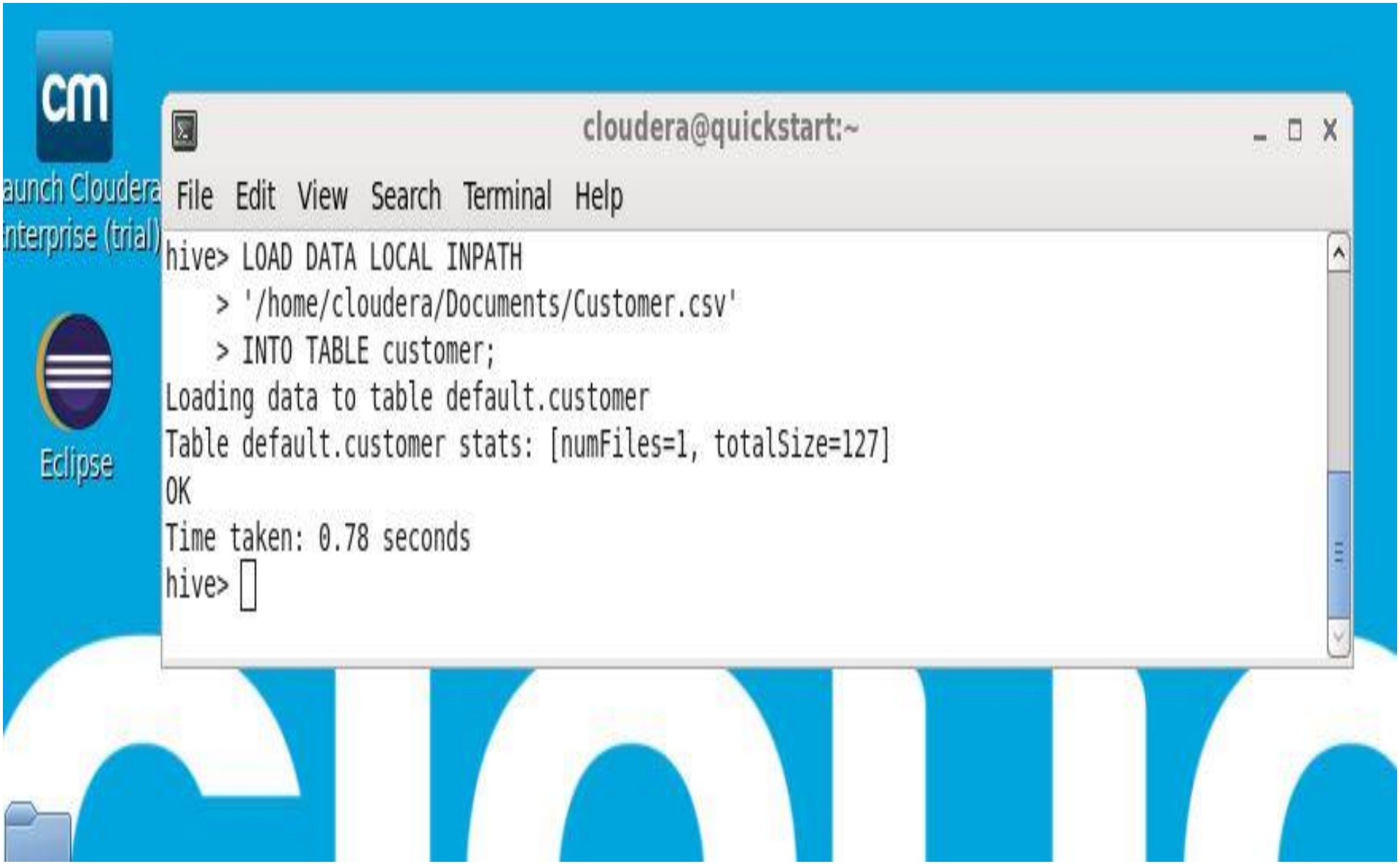


For loading data into the table from file path:

LOAD DATA LOCAL INPATH

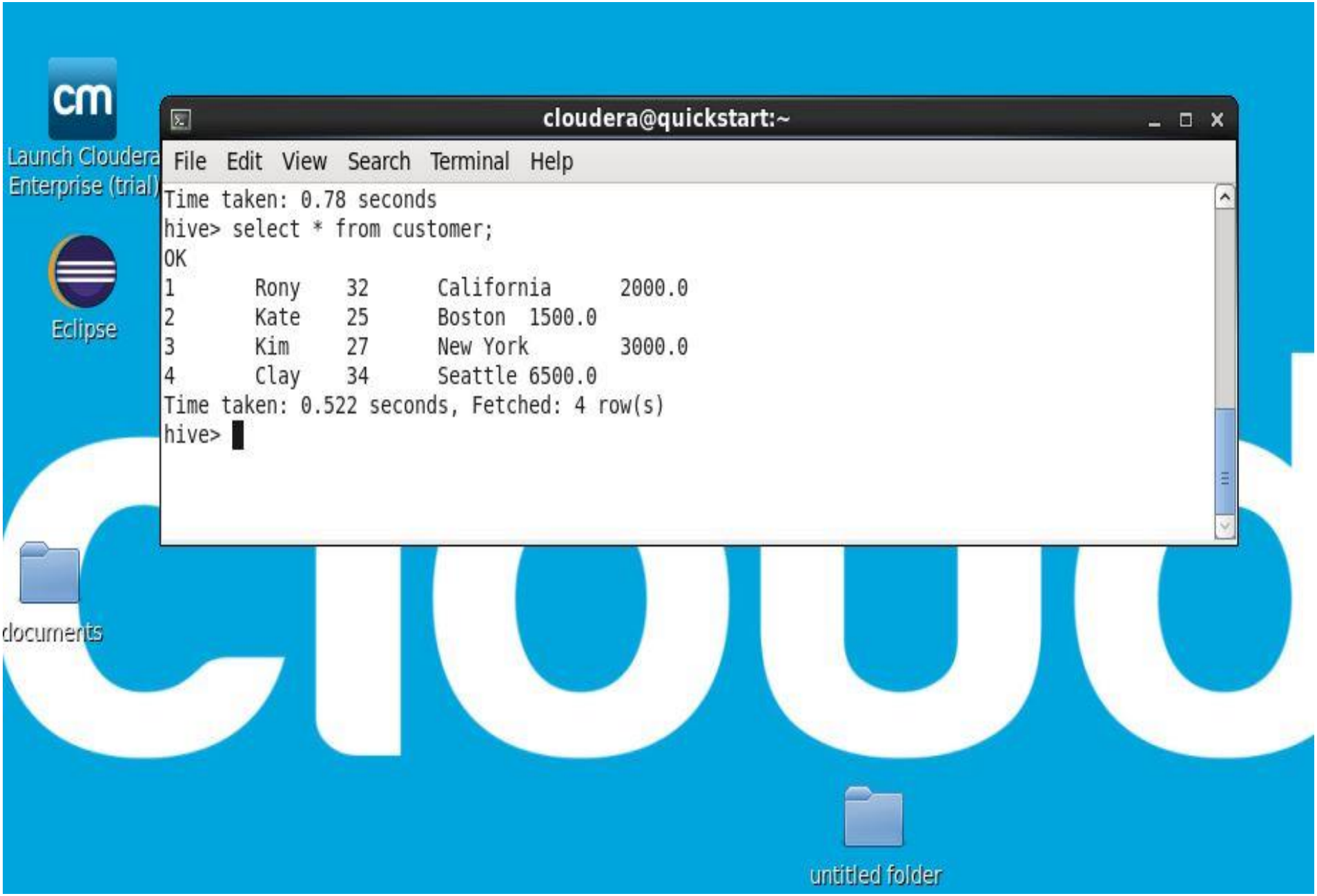
'/home/clodera/Documents/Customer.csv'

INTO TABLE customer;



For displaying data, we have to use:

Select * from customer;



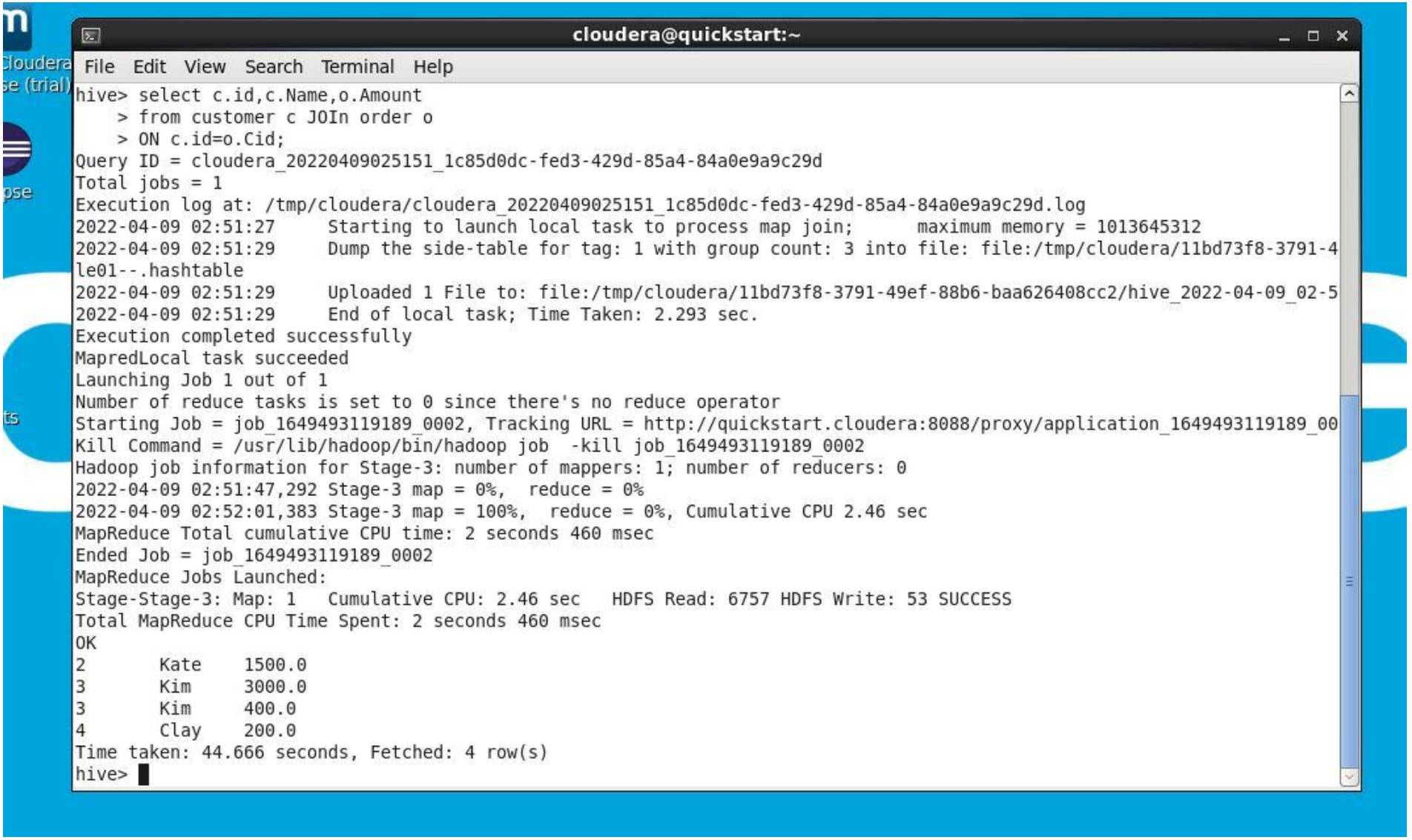
19. A Complex Query

Joining table query:

Select c.id, c.Name, o.Amount

From customer c JOIN order o

ON c.id = o.Cid;



20. Drop DB

For dropping table we have to use command as:

Drop database students cascade;