**ASSIGNMENT 28.1**

**What are ACID properties and Explain Transactions in Hive.**

ACID stands for Atomicity, Consistency, Isolation, and Durability.

**Atomicity:**

Atomicity means, a transaction should complete successfully or else it should fail completely i.e. it should not be left partially.

**Consistency:**

Consistency ensures that any transaction will bring the database from one valid state to another state.

**Isolation:**

Isolation states that every transaction should be independent of each other i.e. one transaction should not affect another.

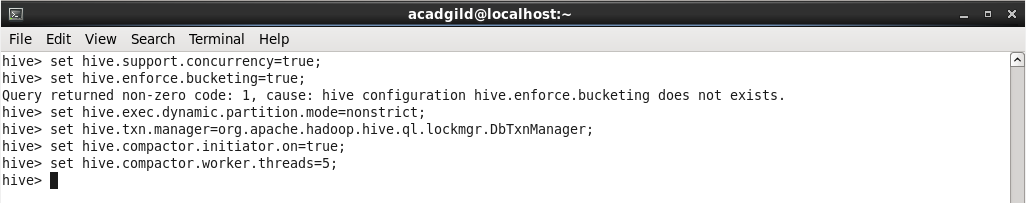
**Durability:**

Durability states that if a transaction is completed, it should be preserved in the database even if the machine state is lost or a system failure might occur.

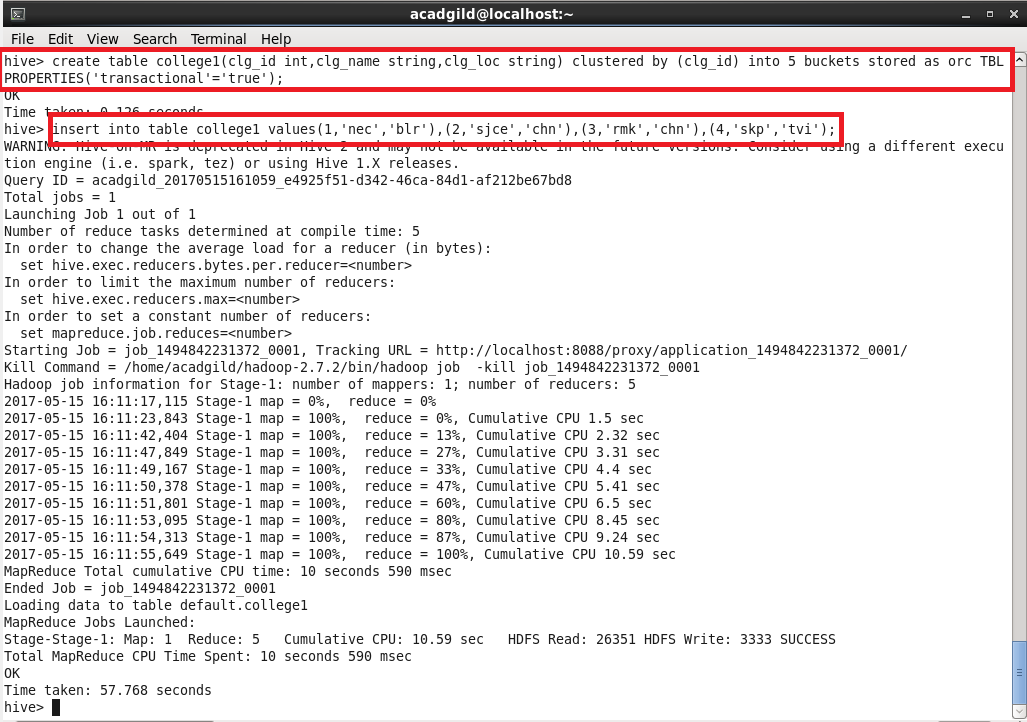
These ACID properties are essential for a transaction and every transaction should ensure that these properties are met.

**TRANSACTIONS IN HIVE:**

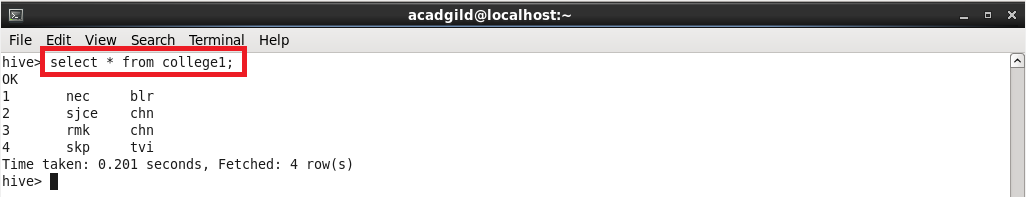
1. **Setting configurations in hive shell:**

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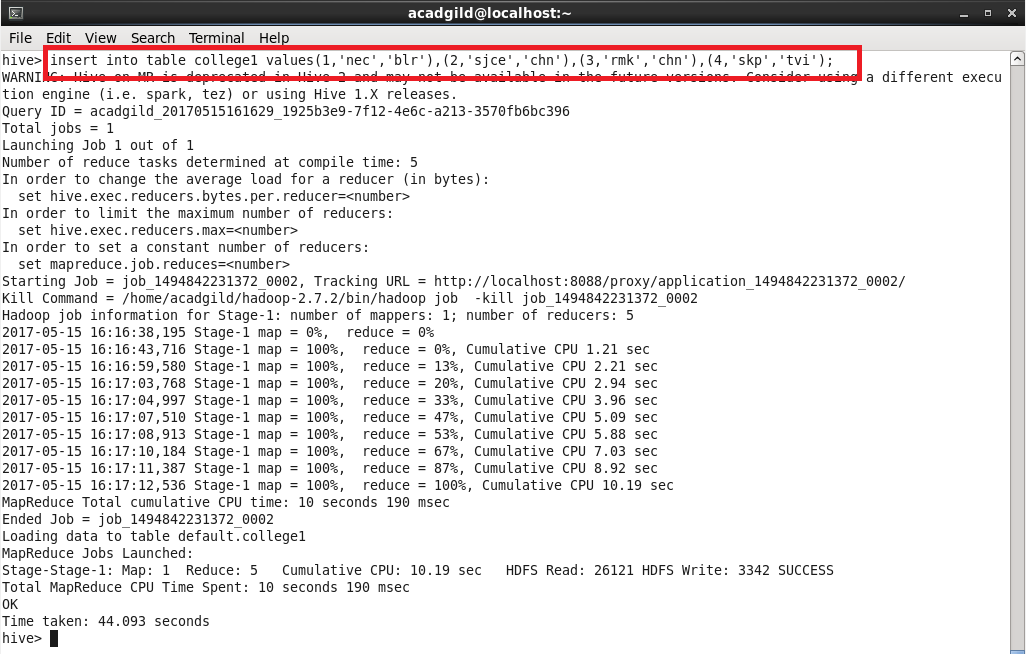
1. **Creating table and inserting data into it.**

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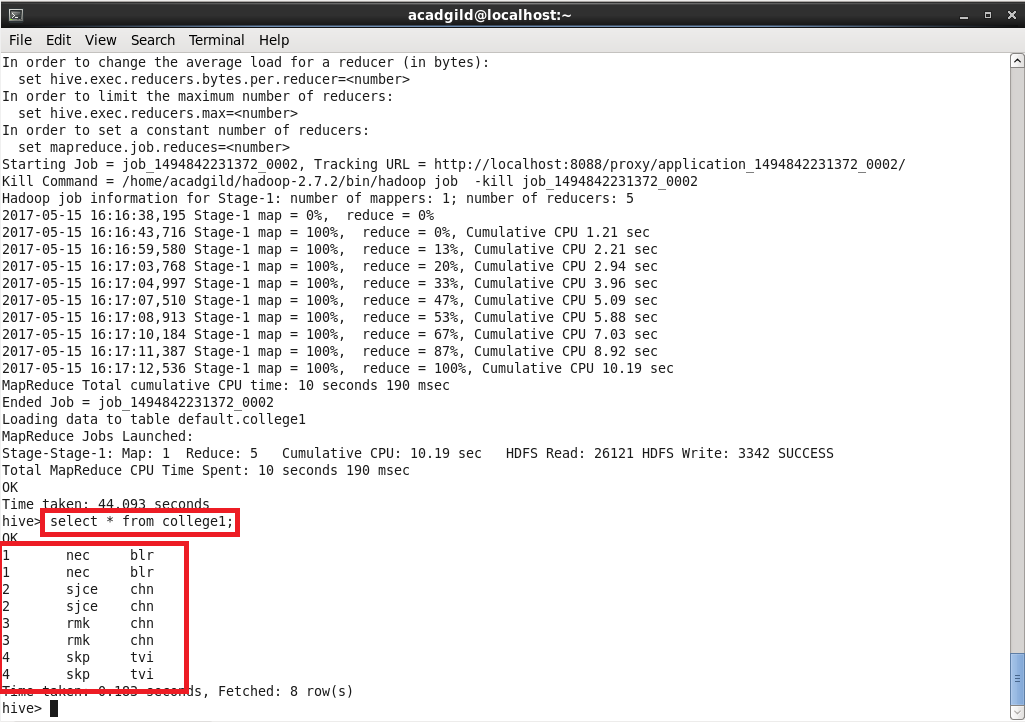
1. **Showing the table with inserted values.**

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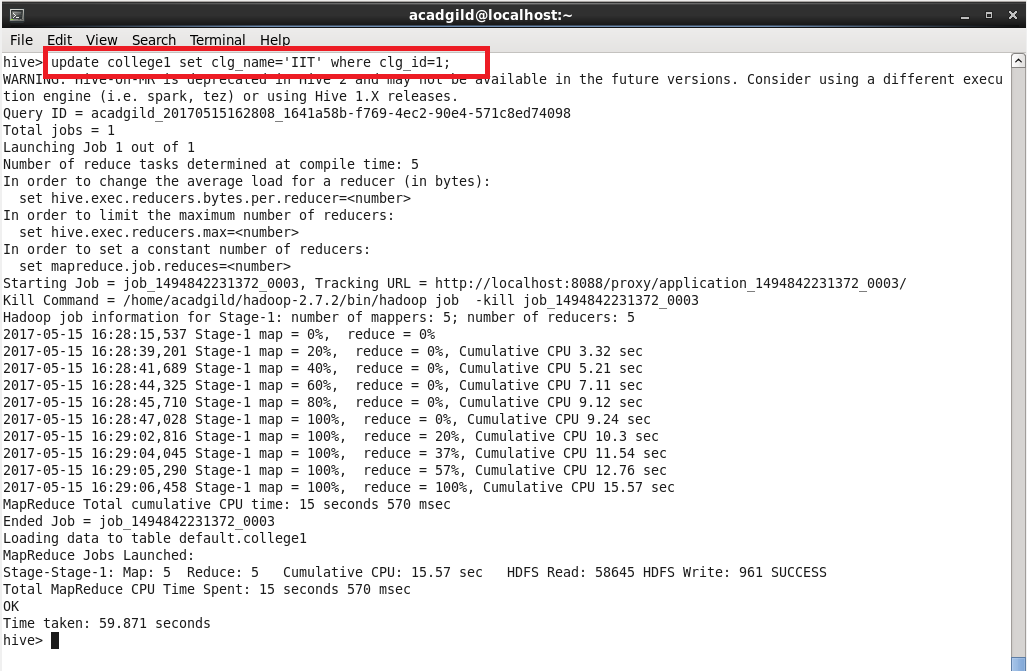
1. **Inserting the same values again does the append operation.**

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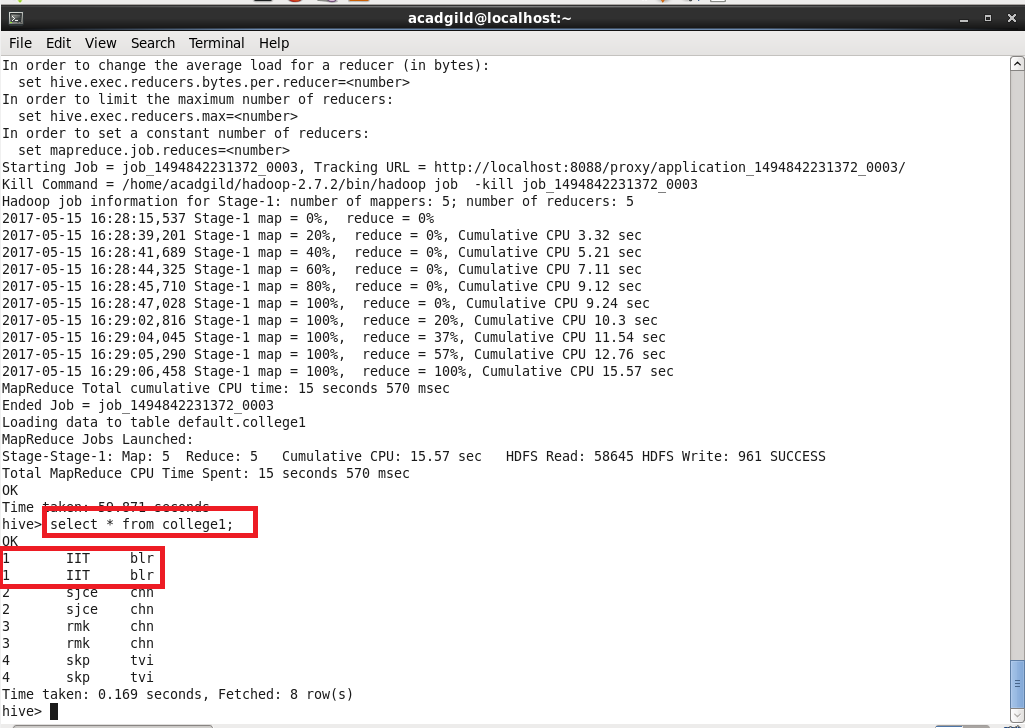
1. **Showing the appended data**

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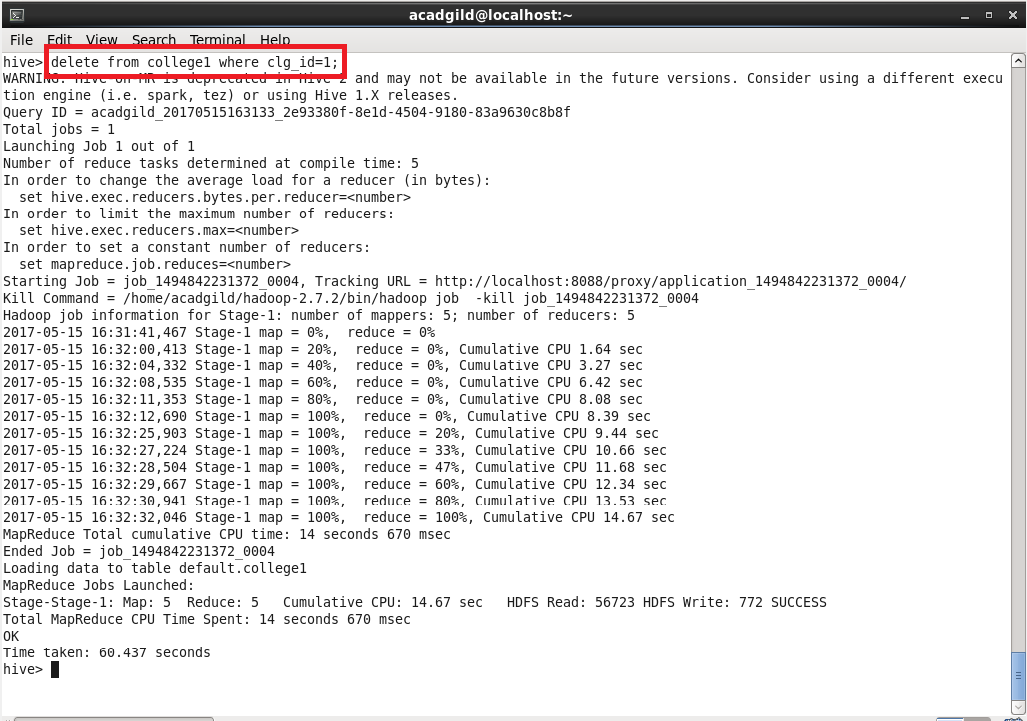
1. **Performing update operation in the rows of the table**



1. **Showing the updated table:**



1. **Performing delete operation:**



1. **Showing the updated table with deleted rows:**

