

**BIG DATA TECHNOLOGIES - LAB**

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| **NAME:** J. PRASHANTH | **R.NO:** 22R21A67F5 | **BRANCH/SEC:** CSD – C |
| **WEEK:** 07 | **TOPIC:** HIVE Commands. | **DATE:** 29th Oct, 2024 |

1. **PROBLEM STATEMENT:** Implement basic HIVE Commands.

**PROGRAM:**

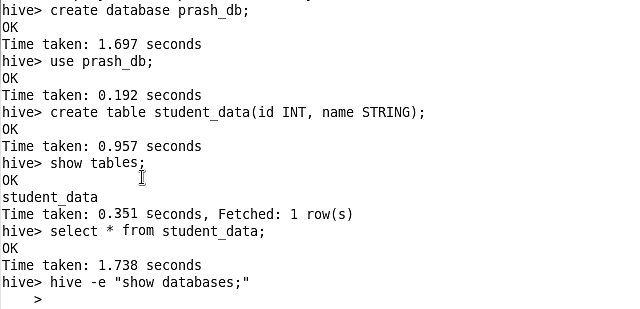
* **Execute Hive Commands**:

CREATE DATABASE prash\_db;

USE prash\_db;

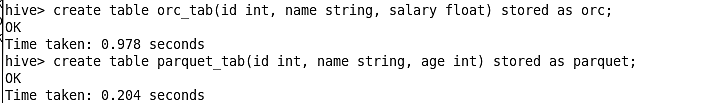
CREATE TABLE student\_data (id INT, name STRING);

SHOW TABLES;

SELECT \* FROM student\_data;

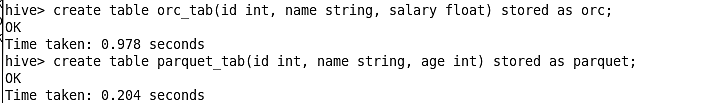
1. **Creating a Table Stored as an ORC File**

CREATE TABLE orc\_tab (id INT, name STRING, salary FLOAT) STORED AS ORC;



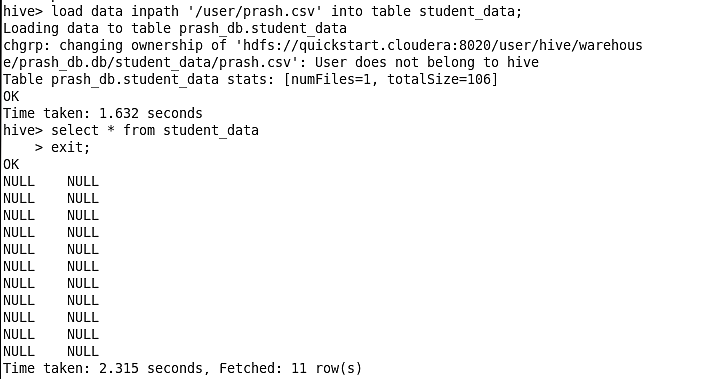
1. **Creating a Table Stored as a Parquet File**

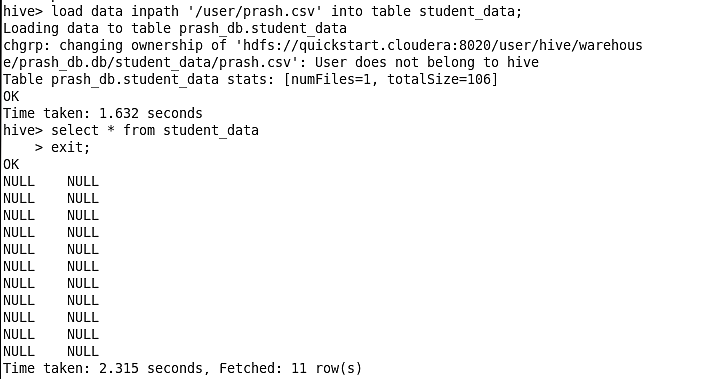
CREATE TABLE parquet\_tab (id INT, name STRING, age INT) STORED AS PARQUET;



1. **Loading Data into Tables**

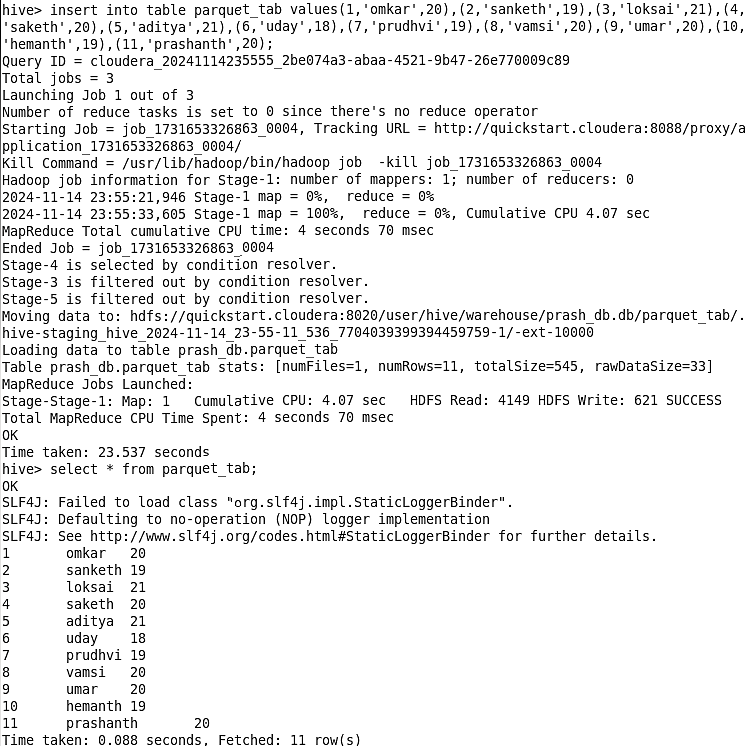
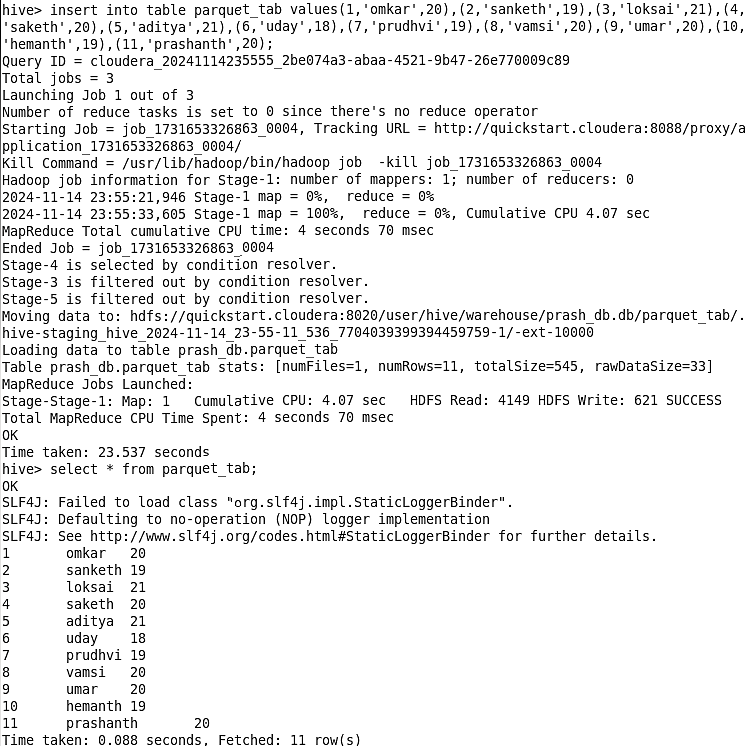
* **Load Data into the Table from the HDFS Path**

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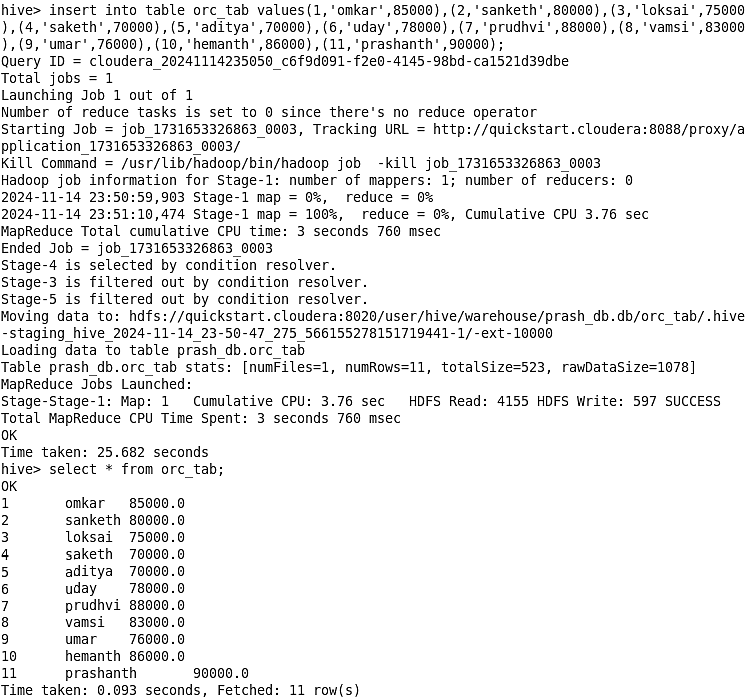
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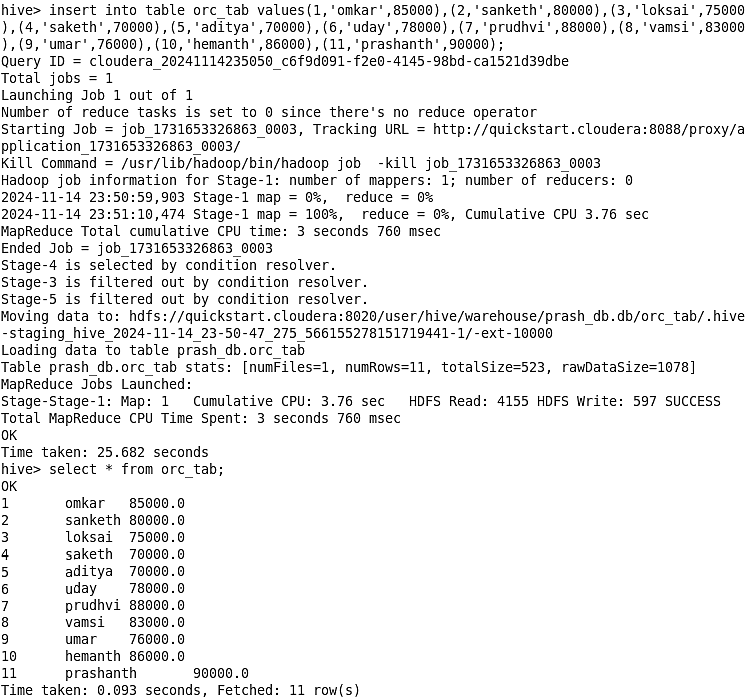
* **Insert Data Using Values**

**Parquet Table**

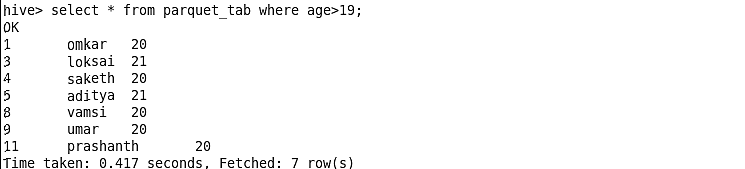


**Orc table**



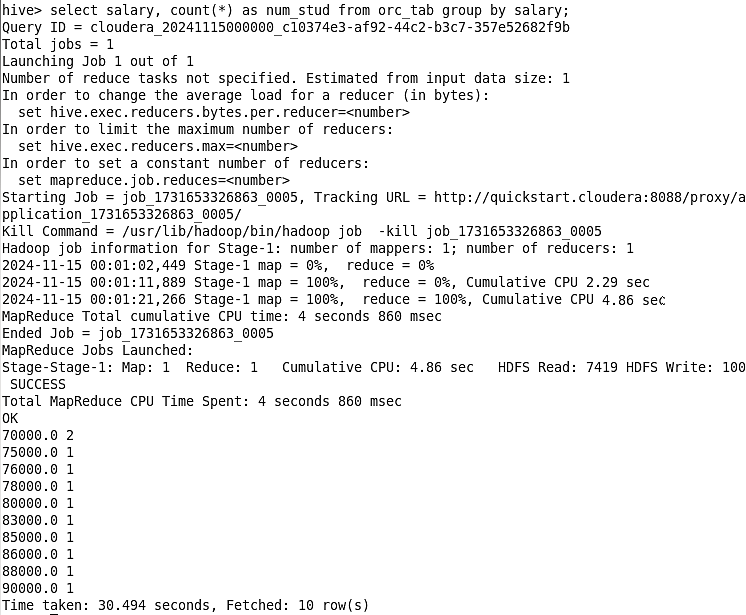


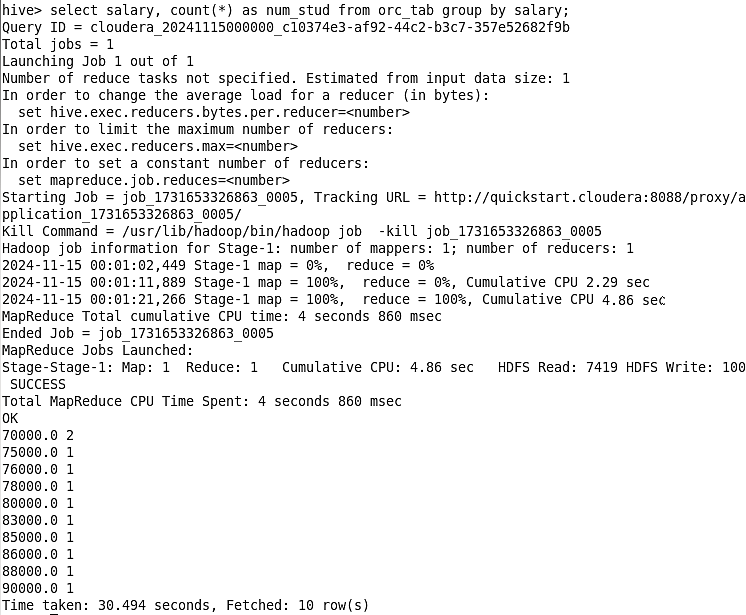
1. **Filtering Data**



1. **Aggregate Functions (COUNT, GROUP BY, HAVING)**

**Salary count**

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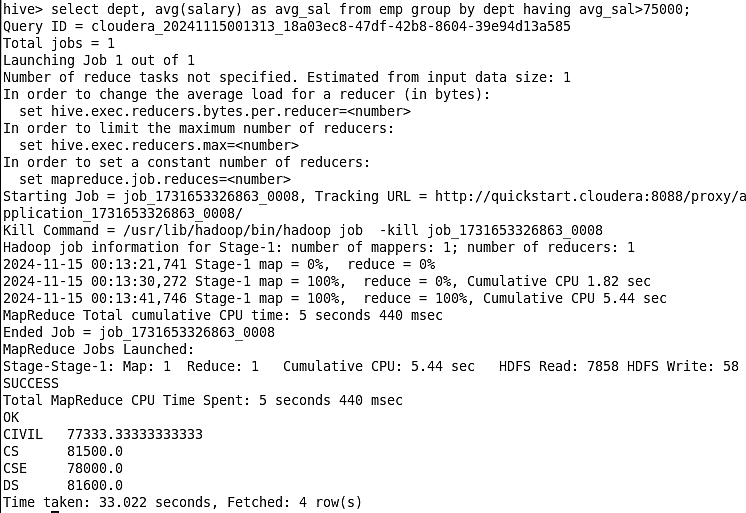
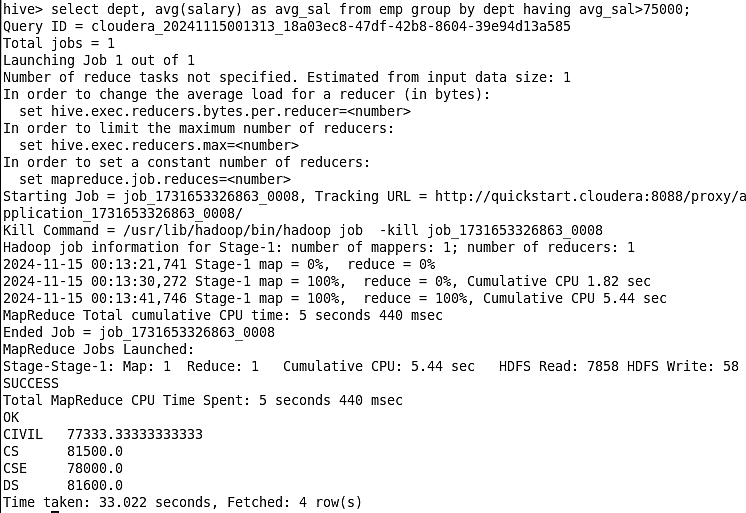
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**Age count**

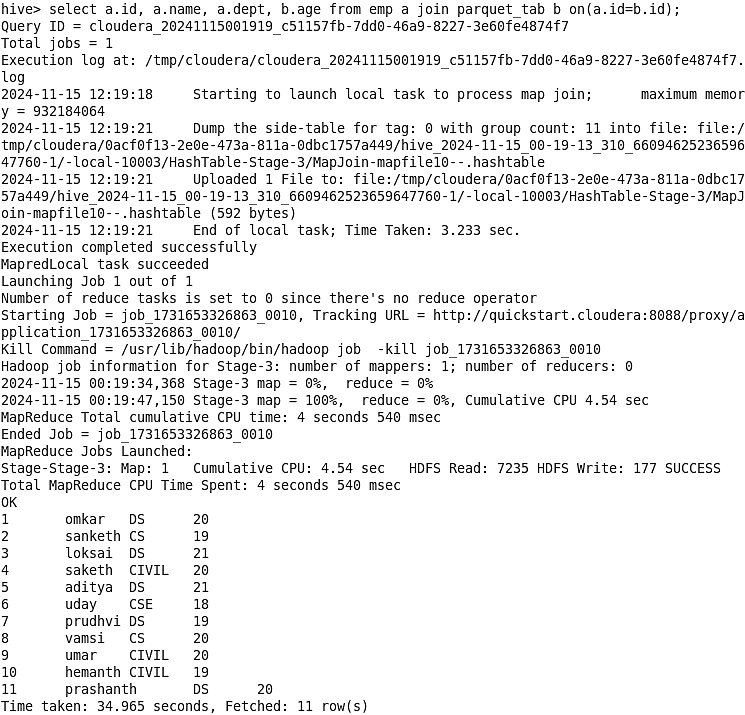
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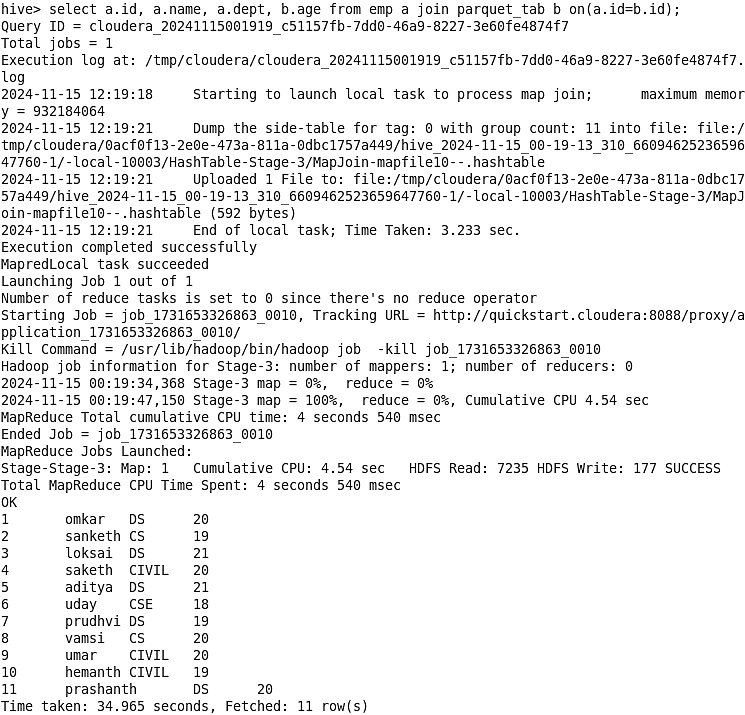
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**Having average salary > 75,000**

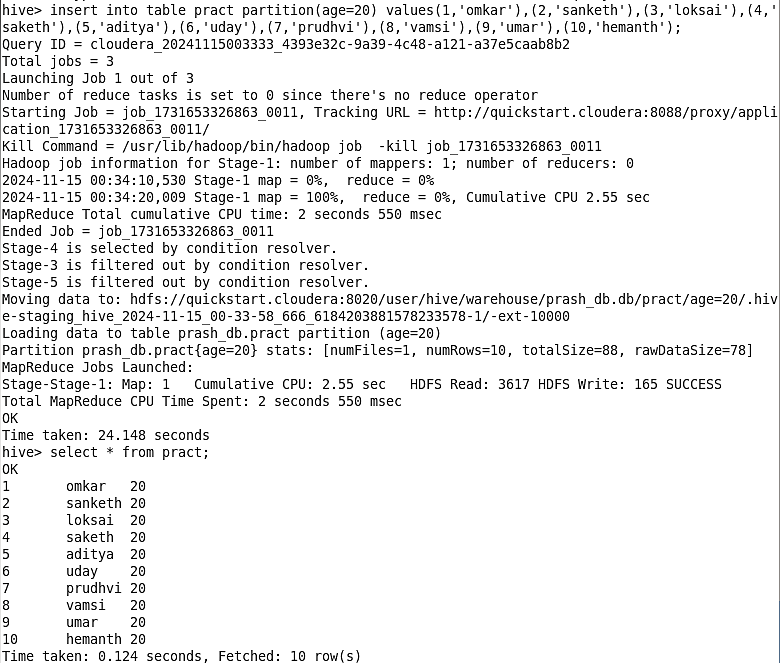
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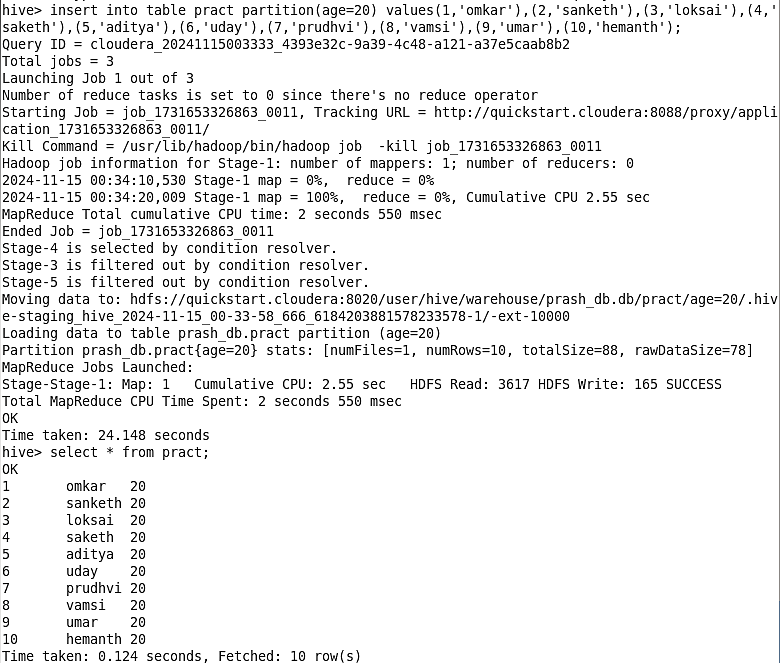
1. **Inner Join**

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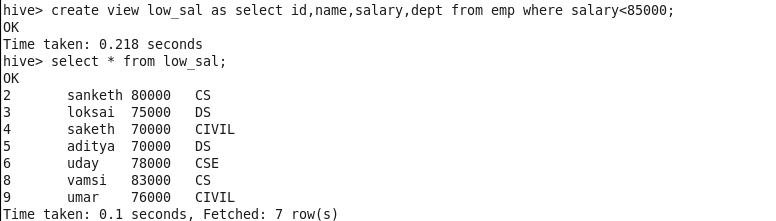
1. **Partitioning**

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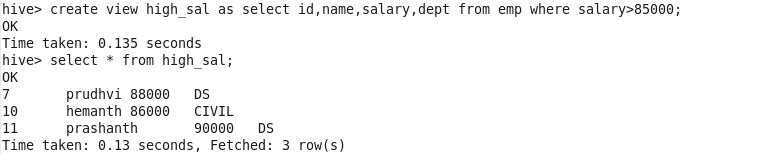
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1. **Views**

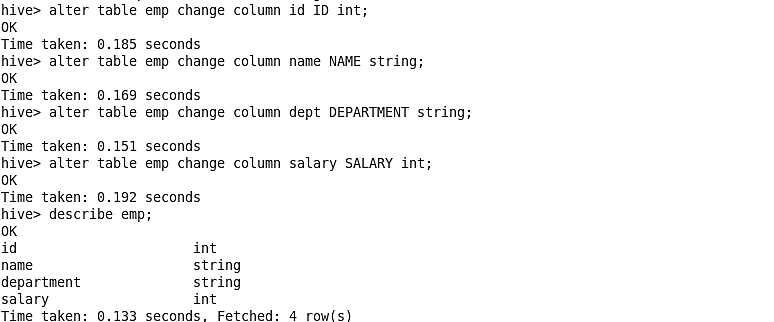
**Salary <85k**

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**Salary >85k**

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1. **Altering Table**

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