



# Vivekanand Education Society's Institute of Technology

Approved by AICTE & Affiliated to University of Mumbai

## Artificial Intelligence and Data Science Department

**BDA / Odd Sem 2023-23 / Experiment 3**

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### Program:

```
[cloudera@quickstart ~]$ mysql -uroot -pcloudera
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 49
Server version: 5.1.73 Source distribution
```

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> CREATE DATABASE sales;
Query OK, 1 row affected (0.02 sec)
```

```
mysql> use sales;
Database changed
```

```
mysql> LOAD DATA Local Infile '/home/cloudera/Desktop/
nes Terminated By '\n';
Query OK, 13 rows affected, 9 warnings (0.02 sec)
Records: 13 Deleted: 0 Skipped: 0 Warnings: 0
```

```
mysql> select * from sales1;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| month_number | facecream | facewash | toothpaste | bathings soap | shampoo | moisturizer | total_units | total_profit |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | 2500 | 1500 | 5200 | 9200 | 1200 | 1500 | 21100 | 211000 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2 | 2630 | 1200 | 5100 | 6100 | 2100 | 1200 | 18330 | 183300 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 3 | 2140 | 1340 | 4550 | 9550 | 3550 | 1340 | 22470 | 224700 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 4 | 3400 | 1130 | 5870 | 8870 | 1870 | 1130 | 22270 | 222700 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 5 | 3600 | 1740 | 4560 | 7760 | 1560 | 1740 | 20960 | 209600 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```



```
mysql> show tables
-> ;
+-----+
| Tables_in_sales |
+-----+
| sales1          |
+-----+
```

#### 1. Importing tables from RDBMS to HDFS using Sqoop:

```
[cloudera@quickstart ~]$ sqoop import --connect jdbc:mysql://localhost/sales --username=root --password="cloudera" --table=sales1 --target-dir=/sales/sales --incremental append --check-column month_number --fields-terminated-by='\t';
```

Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
-rw-r--r--	cloudera	supergroup	533 B	Wed Aug 16 08:28:14 -0700 2023	1	128 MB	ABC
drwxr-xr-x	cloudera	supergroup	0 B	Wed Aug 16 21:56:54 -0700 2023	0	0 B	BDAPrac2A
drwxr-xr-x	cloudera	supergroup	0 B	Fri Aug 18 12:00:01 -0700 2023	0	0 B	MatrixMul
drwxr-xr-x	cloudera	supergroup	0 B	Fri Aug 18 12:04:37 -0700 2023	0	0 B	MatrixMul1
drwxr-xr-x	cloudera	supergroup	0 B	Thu Aug 17 03:06:54 -0700 2023	0	0 B	MatrixMul
drwxr-xr-x	cloudera	supergroup	0 B	Wed Aug 16 11:02:34 -0700 2023	0	0 B	WordCountTutorial
-rw-r--r--	cloudera	supergroup	1.27 KB	Wed Aug 16 11:09:41 -0700 2023	1	128 MB	WordCountTutorialS
drwxrwxrwx	hdfs	supergroup	0 B	Wed Jul 19 05:34:46 -0700 2017	0	0 B	benchmarks
drwxr-xr-x	hbase	supergroup	0 B	Tue Aug 29 12:02:36 -0700 2023	0	0 B	hbase
drwxr-xr-x	cloudera	supergroup	0 B	Tue Aug 29 12:47:11 -0700 2023	0	0 B	sales

#### 2. Importing Table from HDFS to HIVE:

```
[cloudera@quickstart ~]$ sqoop import-all-tables --connect jdbc:mysql://localhost/sales --username=root --password "cloudera" --warehouse-dir /user/hive/warehouse
```

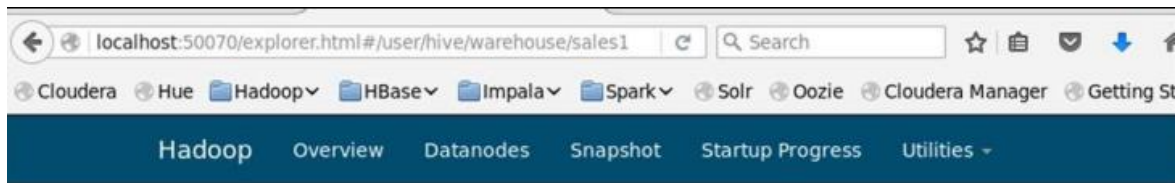


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## Browse Directory

/user/hive/warehouse/sales1

Go!

Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
-rw-r--r--	cloudera	supergroup	0 B	Tue Aug 29 12:59:03 -0700 2023	1	128 MB	_SUCCESS
-rw-r--r--	cloudera	supergroup	108 B	Tue Aug 29 12:58:58 -0700 2023	1	128 MB	part-m-00000

### 3. Going to Hue Editor, importing table, Writing Query and Doing Visualization:

Query: `select * from sales.hera;`

Results (12)

VALUE	LEGEND	LIMIT
total_profit	month_number	100

Sorting: [Bar Chart] [Line Chart] [Pie Chart]



#### 4. Running Some Queries:

0.30s default text

```
1 SELECT *
2 FROM sales.heram
3 WHERE total_profit >= 300200;
```

Query History Saved Queries Results (3)

	month_number	facecream	facewash	toothpaste	bathingsoap	shampoo	moisturizer	total_units	total_profit
1	8	3700	1400	5860	9960	2860	1400	36140	361
2	11	2340	2100	7300	13300	2400	2100	41280	412
3	12	2900	1760	7400	14400	1800	1760	30020	300

COLUMNS (9)

- ☒ month\_number BIGINT\_TYPE
- ☒ facecream BIGINT\_TYPE
- ☒ facewash BIGINT\_TYPE

```
5
6 Insert into sales.heram values(13,121,345,56,435,43,43,500,234235);
```

✓ Success.