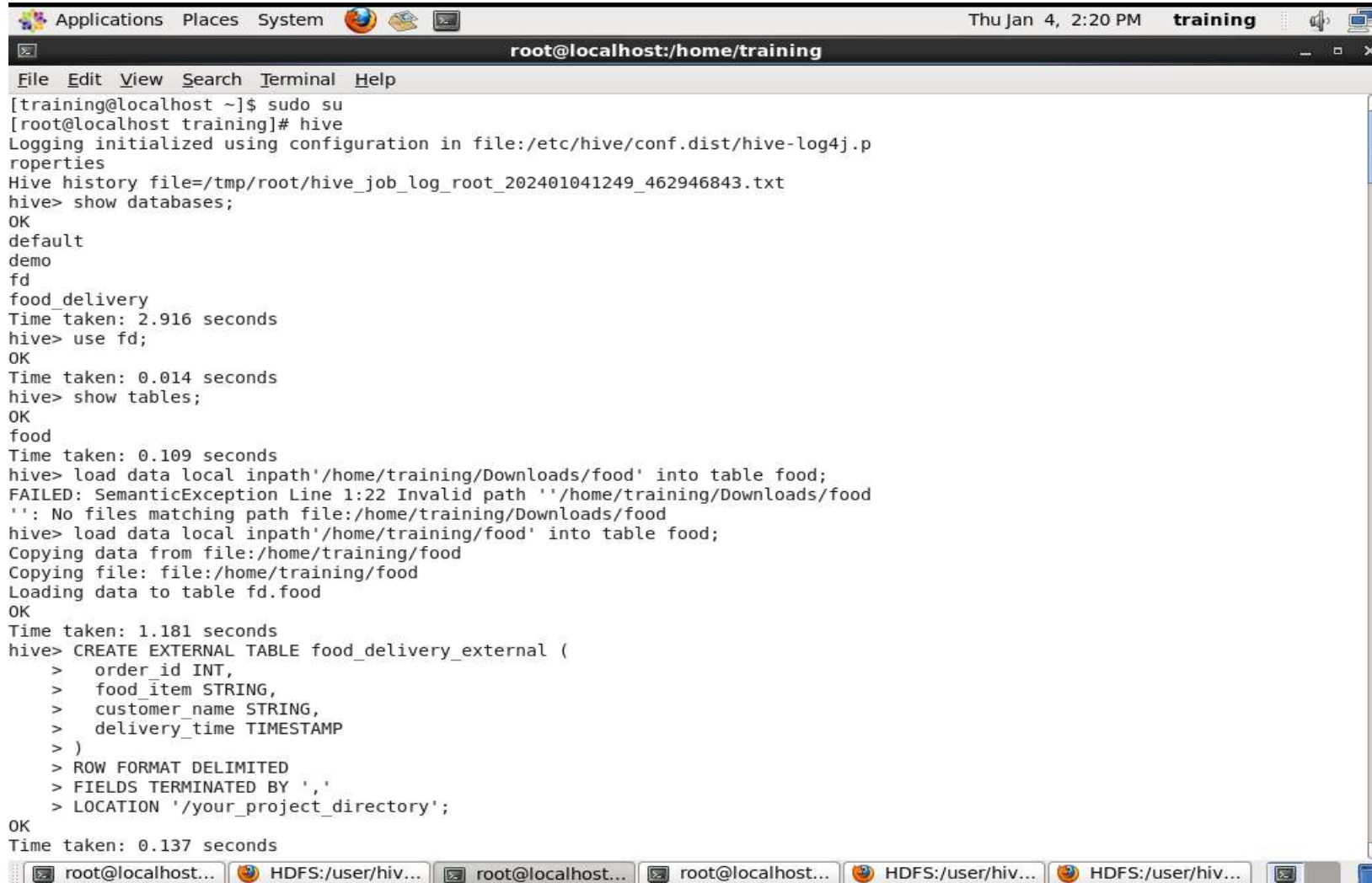


## 5) Hive

create internal and external table on your project data. Also create static and dynamic partitioning.



```
Applications  Places  System  Thu Jan 4, 2:20 PM  training
root@localhost:/home/training
File Edit View Search Terminal Help
[training@localhost ~]$ sudo su
[root@localhost training]# hive
Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.p
roperties
Hive history file=/tmp/root/hive_job_log_root_202401041249_462946843.txt
hive> show databases;
OK
default
demo
fd
food_delivery
Time taken: 2.916 seconds
hive> use fd;
OK
Time taken: 0.014 seconds
hive> show tables;
OK
food
Time taken: 0.109 seconds
hive> load data local inpath '/home/training/Downloads/food' into table food;
FAILED: SemanticException Line 1:22 Invalid path ''/home/training/Downloads/food
'': No files matching path file:/home/training/Downloads/food
hive> load data local inpath '/home/training/food' into table food;
Copying data from file:/home/training/food
Copying file: file:/home/training/food
Loading data to table fd.food
OK
Time taken: 1.181 seconds
hive> CREATE EXTERNAL TABLE food_delivery_external (
>   order_id INT,
>   food_item STRING,
>   customer_name STRING,
>   delivery_time TIMESTAMP
> )
> ROW FORMAT DELIMITED
> FIELDS TERMINATED BY ','
> LOCATION '/your_project_directory';
OK
Time taken: 0.137 seconds
```

```
Applications Places System Thu Jan 4, 2:21 PM training
root@localhost:/home/training
File Edit View Search Terminal Help
Time taken: 0.137 seconds
hive> CREATE EXTERNAL TABLE food_delivery_external (
  > order_id INT,
  > food_item STRING,
  > customer_name STRING,
  > delivery_time TIMESTAMP
  > )
  > ROW FORMAT DELIMITED
  > FIELDS TERMINATED BY ','
  > LOCATION ;
FAILED: ParseException line 9:0 mismatched input '<EOF>' expecting StringLiteral
near 'LOCATION' in table location specification

hive> drop table food_delivery_external;
OK
Time taken: 0.29 seconds
hive> show tables;
OK
food
Time taken: 0.059 seconds
hive> CREATE EXTERNAL TABLE IF NOT EXISTS my_external_table ( ID INT, Deli
very_person_ID STRING, Delivery_person_Age INT, Delivery_person_Ratings FL
OAT, Restaurant_latitude FLOAT, Restaurant_longitude FLOAT, Delivery_lo
cation_latitude FLOAT, Delivery_location_longitude FLOAT, Type_of_order ST
RING, Type_of_vehicle STRING, Time_taken_min INT)ROW FORMAT DELIMITEDFIELD
S TERMINATED BY ',' location '/fd';
FAILED: ParseException line 1:369 cannot recognize input near 'ROW' 'FORMAT' 'DE
LIMITEDFIELDS' in table row format specification

hive> CREATE EXTERNAL TABLE IF NOT EXISTS my_external_table ( ID INT, Deli
very_person_ID STRING, Delivery_person_Age INT, Delivery_person_Ratings FL
OAT, Restaurant_latitude FLOAT, Restaurant_longitude FLOAT, Delivery_lo
cation_latitude FLOAT, Delivery_location_longitude FLOAT, Type_of_order ST
RING, Type_of_vehicle STRING, Time_taken_min INT)ROW FORMAT DELIMITED

                                FIELDS TERMINATED BY ',' location '/fd';
OK
Time taken: 0.04 seconds
hive> show tables;
```

Applications Places System Thu Jan 4, 2:22 PM training

root@localhost:/home/training

File Edit View Search Terminal Help

my\_external\_table  
Time taken: 0.062 seconds  
hive> CREATE EXTERNAL TABLE IF NOT EXISTS my\_external\_table ( ID INT, Delivery\_person\_ID STRING, Delivery\_person\_Age INT, Delivery\_person\_Ratings FLOAT, Restaurant\_latitude FLOAT, Restaurant\_longitude FLOAT, Delivery\_location\_latitude FLOAT, Delivery\_location\_longitude FLOAT, Type\_of\_order STRING, Type\_of\_vehicle STRING, Time\_taken\_min INT)  
ROW FORMAT DELIMITED  
  
> ;  
hive> load data local inpath '/home/training/food' into table my\_external\_table;  
Copying data from file:/home/training/food  
Copying file: file:/home/training/food  
Loading data to table fd.my\_external\_table  
OK  
Time taken: 0.158 seconds  
hive> select \* from my\_external\_table;  
OK  
NULL NULL NULL NULL NULL NULL NULL NULL NULL NULL  
NULL Delivery\_person\_ID NULL NULL NULL Type\_of\_order Type\_of\_vehicle NULL  
4607 INDORES13DEL02 37 4.9 22.745049 75.89247 22.765049 75.91247 Snack motorcycle 2  
4  
NULL BANGRES18DEL02 34 4.5 12.913041 77.683235 13.043041 77.81324 Snack scooter 3  
3  
NULL BANGRES19DEL01 23 4.4 12.914264 77.6784 12.924264 77.6884 Drinks motorcycle 26  
NULL COIMBRES13DEL02 38 4.7 11.003669 76.976494 11.053669 77.0265 Buffet motorcycle 21  
NULL CHENRES12DEL01 32 4.6 12.972793 80.249985 13.012793 80.289986 Snack scooter 3  
0  
NULL HYDRES09DEL03 22 4.8 17.431667 78.40832 17.461668 78.438324 Buffet motorcycle 2  
6  
NULL RANCHIRES15DEL01 33 4.7 23.369745 85.33982 23.479746 85.44982 Meal scoot  
er 40  
NULL MYSRES15DEL02 35 4.6 12.352058 76.60665 12.482058 76.73665 Meal motorcycle 3  
2  
1102 HYDRES05DEL02 22 4.8 17.43381 78.38674 17.563808 78.51675 Buffet motorcycle 3  
4  
NULL DEHRES17DEL01 36 4.2 30.327969 78.046104 30.397968 78.116104 Snack motorcycle 4

root@localhost... HDFS:/user/hiv... root@localhost... root@localhost... HDFS:/user/hiv... HDFS:/user/hiv...

```
hive> CREATE TABLE food_delivery_static_partitioned ( ID INT, Delivery_person_ID INT, Delivery_person_Age INT, Delivery_p
erson_Ratings FLOAT, Restaurant_latitude FLOAT, Restaurant_longitude FLOAT, Delivery_location_latitude FLOAT, Delivery_lo
cation_longitude FLOAT, Type_of_vehicle STRING, Time_taken_min INT)PARTITIONED BY (Type_of_order STRING)ROW FORMAT DELIMIT
ED FIELDS TERMINATED BY ',';
OK
Time taken: 0.787 seconds
```

```
hive>
> LOAD DATA LOCAL INPATH '/home/training/food'
> INTO TABLE food_delivery_static_partitioned
> PARTITION (Type_of_order= 'snack');
Copying data from file:/home/training/food
Copying file: file:/home/training/food
Loading data to table default.food_delivery_static_partitioned partition (type_of_order=snack)
OK
Time taken: 0.679 seconds
hive> set hive.exec.dynamic.partition='true';
hive> set hive.exec.dynamic.partition.mode=nonstrict;
```

```
hive> CREATE TABLE delivery_details_dynamic_partitioned ( ID INT, Delivery_person_ID INT, Delivery_person_Age INT, Delive
ry_person_Ratings INT, Restaurant_latitude FLOAT, Restaurant_longitude FLOAT, Delivery_location_latitude FLOAT, Delivery_
location_longitude FLOAT, Type_of_order STRING, Type_of_vehicle STRING)PARTITIONED BY (Time_taken int);
OK
Time taken: 0.078 seconds
```

```
hive> insert into table delivery_details_dynamic_partitioned partition(Time_taken) select ID,Delivery_person_ID,Delivery_pers
on_Age,Delivery_person_Ratings,Resturant_latitude,Restaurant_longitude,Delivery_location_latitude, Delivery_location_longitud
e,Type_of_order,Type_of_vehicle,Time taken from food;
```

ApplicationsPlacesSystem

Thu Jan 4, 2:27 PMtraining

HDFS:/ - Mozilla Firefox

FileEditViewHistoryBookmarksToolsHelp

HDFS:/

localhost.localdomain:50075/browseDirectory.jsp?namenodeInfoPort=50070&dir=/&nnaddr=I

Google

The Platform for Bi...Hadoop JobTrackerHadoop NameNode

### Contents of directory /

Goto :  go

| Name                                   | Type | Size | Replication | Block Size | Modification Time | Permission | Owner | Group      |
|--|------|------|-------------|------------|-------------------|------------|-------|------------|
| <a href="#">fd</a>                     | dir  |      |             |            | 2024-01-04 13:21  | rwXr-Xr-X  | root  | supergroup |
| <a href="#">hbase</a>                  | dir  |      |             |            | 2024-01-02 23:28  | rwXr-Xr-X  | hbase | supergroup |
| <a href="#">tmp</a>                    | dir  |      |             |            | 2023-12-19 01:58  | rwXrwXrwt  | hdfs  | supergroup |
| <a href="#">user</a>                   | dir  |      |             |            | 2023-12-19 02:05  | rwXrwXrwx  | hue   | supergroup |
| <a href="#">var</a>                    | dir  |      |             |            | 2014-07-27 09:23  | rwXr-Xr-X  | hdfs  | supergroup |
| <a href="#">your_project_directory</a> | dir  |      |             |            | 2024-01-04 13:01  | rwXr-Xr-X  | root  | supergroup |

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### Local logs

[Log directory](#)

[Hadoop](#), 2024.

root@local...HDFS:/user...root@localh...root@local...HDFS:/user...HDFS:/user...HDFS:/ - M...

ApplicationsPlacesSystem

Thu Jan 4, 2:28 PMtraining

HDFS:/user - Mozilla Firefox

FileEditViewHistoryBookmarksToolsHelp

HDFS:/user

localhost.localdomain:50075/browseDirectory.jsp?dir=%2Fuser&namenodeInfoPort=50070&n

Google

List all tabs

The Platform for Bi...Hadoop JobTrackerHadoop NameNode

Contents of directory /user

Goto : /user go

[Go to parent directory](#)

| Name                     | Type | Size | Replication | Block Size | Modification Time | Permission | Owner    | Group      |
|--------------------------|------|------|-------------|------------|-------------------|------------|----------|------------|
| <a href="#">history</a>  | dir  |      |             |            | 2014-07-27 09:35  | rw-rw-rw-  | yarn     | supergroup |
| <a href="#">hive</a>     | dir  |      |             |            | 2013-09-05 20:08  | rw-r-xr-x  | hue      | supergroup |
| <a href="#">hue</a>      | dir  |      |             |            | 2013-09-10 10:37  | rw-r-xr-x  | hue      | hue        |
| <a href="#">root</a>     | dir  |      |             |            | 2023-12-19 02:05  | rw-x-----  | root     | supergroup |
| <a href="#">training</a> | dir  |      |             |            | 2014-07-27 09:44  | rw-r-xr-x  | training | supergroup |
| <a href="#">trial</a>    | dir  |      |             |            | 2014-07-27 03:52  | rw-r-xr-x  | training | supergroup |

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Local logs

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[Hadoop](#), 2024.

root@local...HDFS:/user...root@local...root@local...HDFS:/user...HDFS:/user...HDFS:/user...

ApplicationsPlacesSystem

Thu Jan 4, 2:28 PMtraining

HDFS:/user/hive - Mozilla Firefox

FileEditViewHistoryBookmarksToolsHelp

HDFS:/user/hive

localhost.localdomain:50075/browseDirectory.jsp?dir=%2Fuser%2Fhive&namenodeInfoPort=Google

The Platform for Bi...Hadoop JobTrackerHadoop NameNode

Contents of directory /user/hive

Goto : /user/hive

go

[Go to parent directory](#)

| Name                      | Type | Size | Replication | Block Size | Modification Time | Permission | Owner | Group      |
|---------------------------|------|------|-------------|------------|-------------------|------------|-------|------------|
| <a href="#">warehouse</a> | dir  |      |             |            | 2024-01-04 13:54  | rw-rw-rw-  | hue   | supergroup |

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Local logs

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[Hadoop](#), 2024.

root@local...HDFS:/user...root@localh...root@local...HDFS:/user...HDFS:/user...HDFS:/user...



ApplicationsPlacesSystem

Thu Jan 4, 2:29 PMtraining

HDFS:/user/hive/warehouse - Mozilla Firefox

FileEditViewHistoryBookmarksToolsHelp

HDFS:/user/hive/warehouse

localhost.localdomain:50075/browseDirectory.jsp?dir=%2Fuser%2Fhive%2Fwarehouse&nameGoogle

The Platform for Bi...Hadoop JobTrackerHadoop NameNode

Contents of directory /user/hive/warehouse

Goto : /user/hive/warehouse go

[Go to parent directory](#)

| Name   | Type | Size | Replication | Block Size | Modification Time | Permission | Owner | Group      |
|--|------|------|-------------|------------|-------------------|------------|-------|------------|
| <a href="#">delivery_details_dynamic_partitioned</a> | dir  |      |             |            | 2024-01-04 13:54  | rwxr-xr-x  | root  | supergroup |
| <a href="#">demo.db</a>                              | dir  |      |             |            | 2023-12-21 00:35  | rwxr-xr-x  | root  | supergroup |
| <a href="#">fd.db</a>                                | dir  |      |             |            | 2024-01-04 13:27  | rwxr-xr-x  | root  | supergroup |
| <a href="#">food_delivery.db</a>                     | dir  |      |             |            | 2024-01-04 01:19  | rwxr-xr-x  | root  | supergroup |
| <a href="#">food_delivery_static_partitioned</a>     | dir  |      |             |            | 2024-01-04 13:43  | rwxr-xr-x  | root  | supergroup |

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Local logs

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[Hadoop](#), 2024.

root@local...HDFS:/user...root@localh...root@local...HDFS:/user...HDFS:/user...HDFS:/user...



ApplicationsPlacesSystem

Thu Jan 4, 2:29 PMtraining

HDFS:/user/hive/warehouse/fd.db - Mozilla Firefox

FileEditViewHistoryBookmarksToolsHelp

HDFS:/user/hive/warehouse/fd.db

localhost.localdomain:50075/browseDirectory.jsp?dir=%2Fuser%2Fhive%2Fwarehouse%2Ffd

Google

The Platform for Bi...Hadoop JobTrackerHadoop NameNode

## Contents of directory /user/hive/warehouse/fd.db

Goto :

[Go to parent directory](#)

| Name   | Type | Size | Replication | Block Size | Modification Time | Permission | Owner | Group      |
|--|------|------|-------------|------------|-------------------|------------|-------|------------|
| <a href="#">food</a>                             | dir  |      |             |            | 2024-01-04 12:56  | rwxr-xr-x  | root  | supergroup |
| <a href="#">food_delivery_static_partitioned</a> | dir  |      |             |            | 2024-01-04 13:27  | rwxr-xr-x  | root  | supergroup |

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## Local logs

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root@local...HDFS:/user...root@localh...root@local...HDFS:/user...HDFS:/user...HDFS:/user...