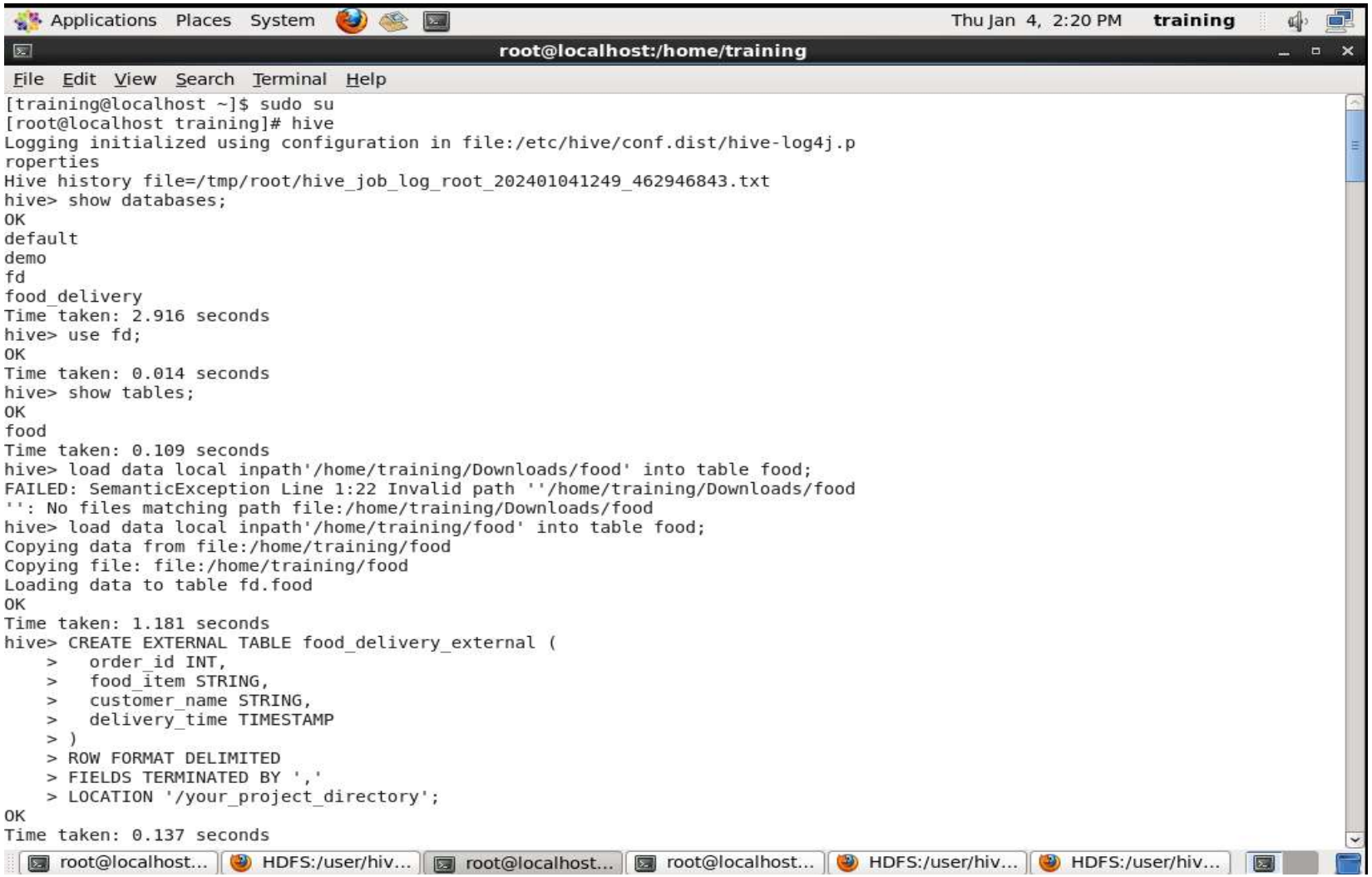
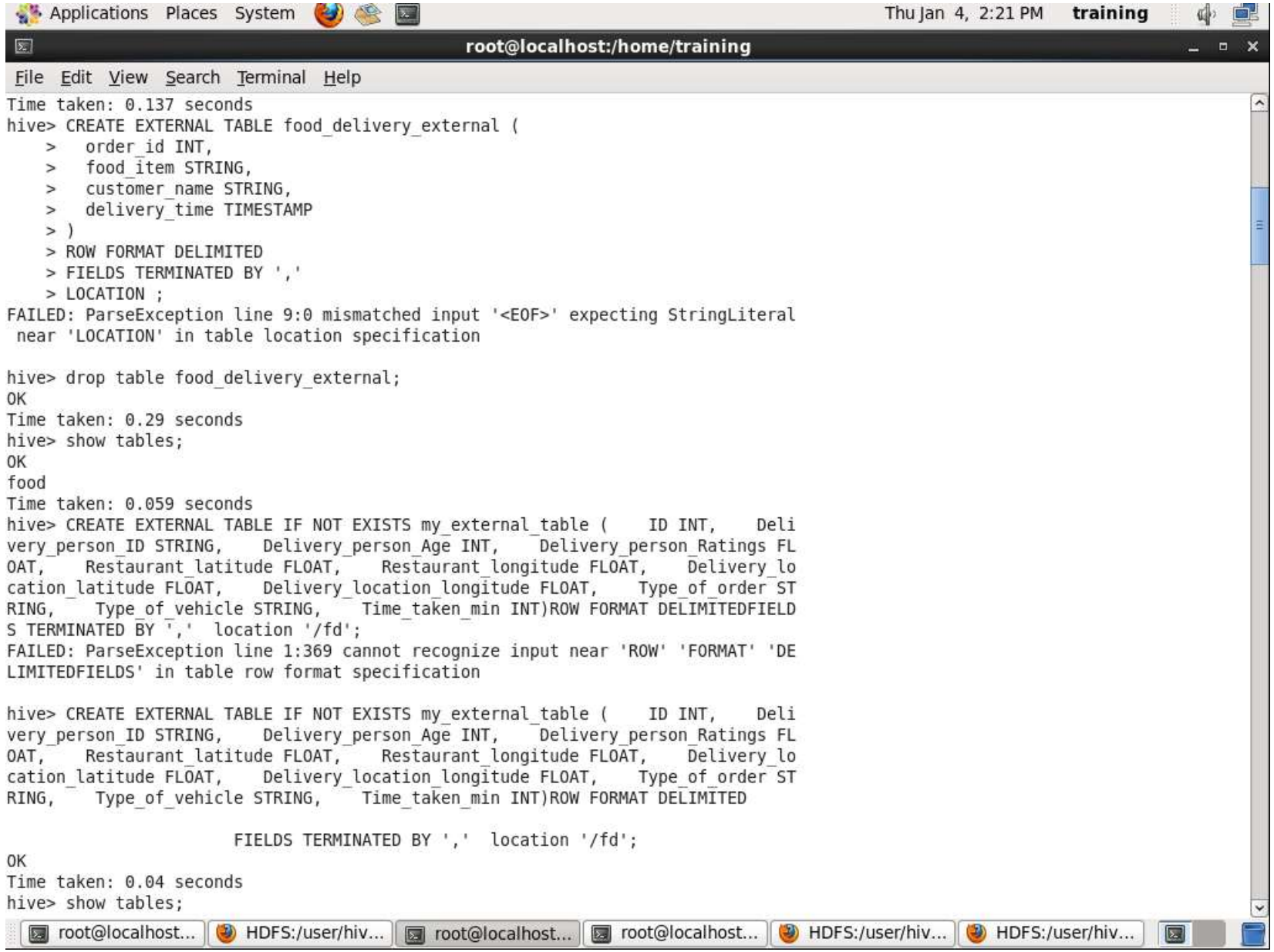
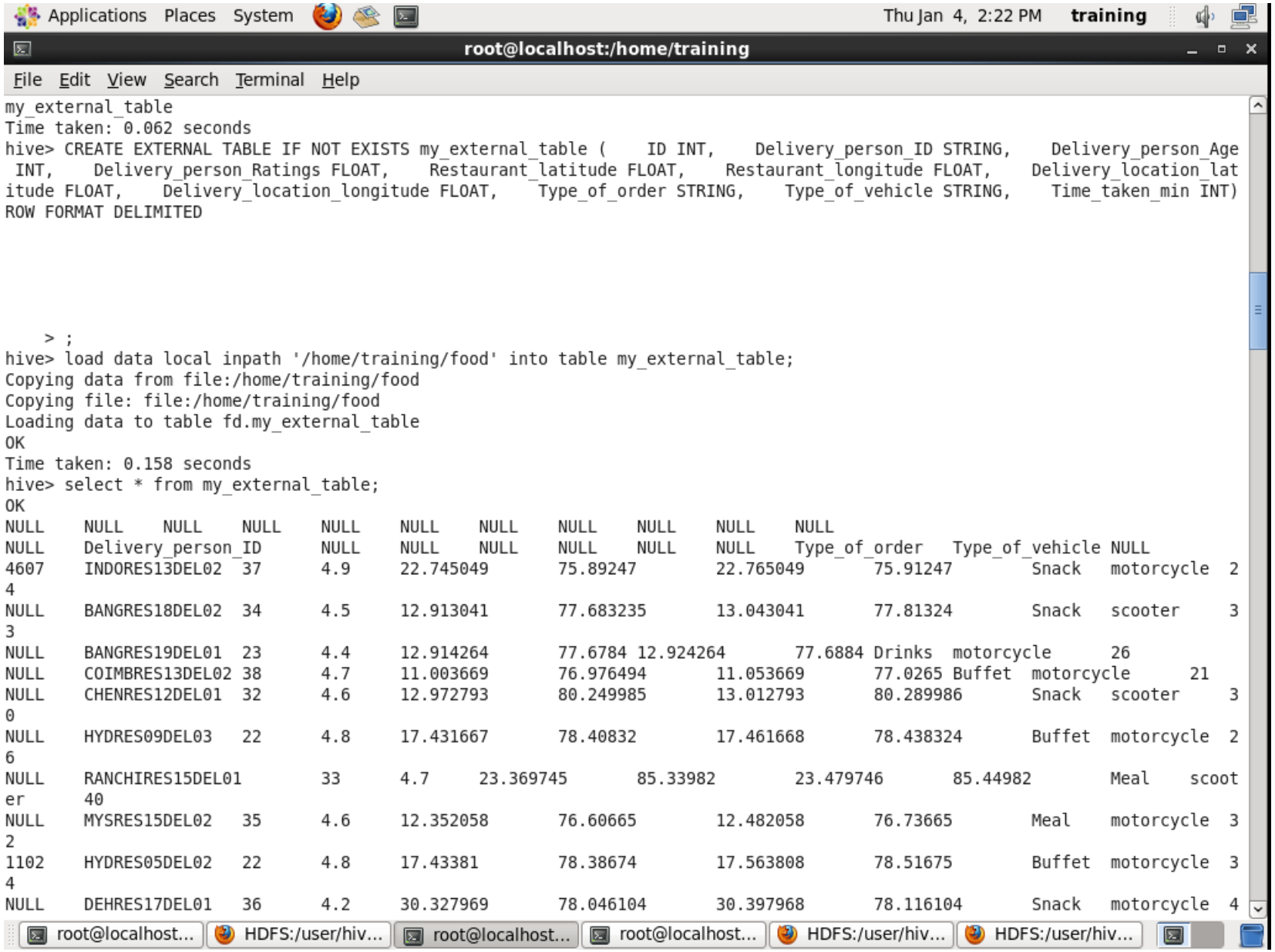
5) Hive

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




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

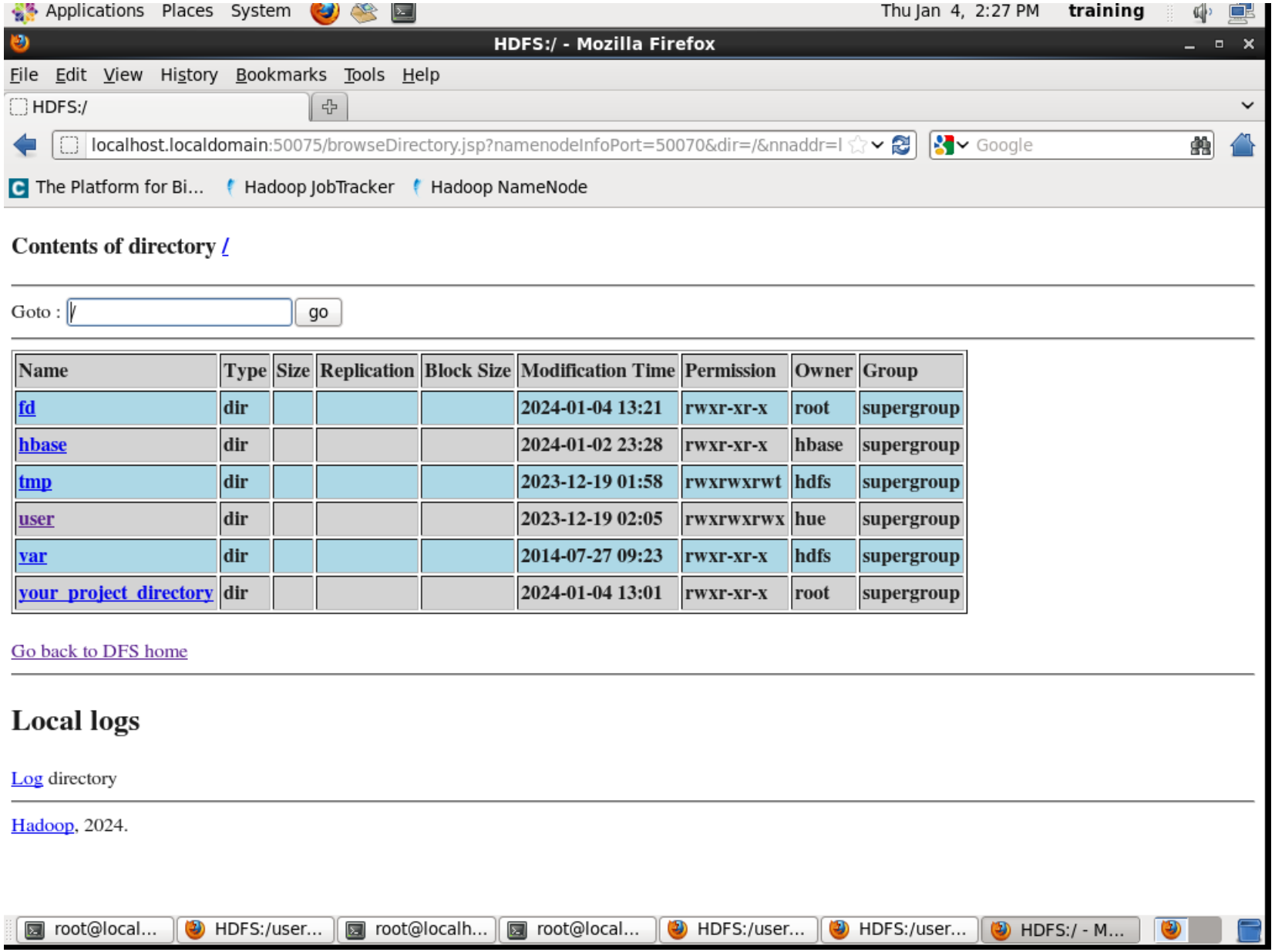

Applications Places System
Thu Jan 4, 2:22 PM training
root@localhost:/home/training
File Edit View Search Terminal Help
my_external_table
Time taken: 0.062 seconds
hive> CREATE EXTERNAL TABLE IF NOT EXISTS my_external_table (ID INT, Delivery_person_ID STRING, Delivery_person_Age
INT, Delivery_person_Ratings FLOAT, Restaurant_latitude FLOAT, Restaurant_longitude FLOAT, Delivery_location_lat
itude 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
NULL Delivery_person_ID NULL NULL NULL 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...

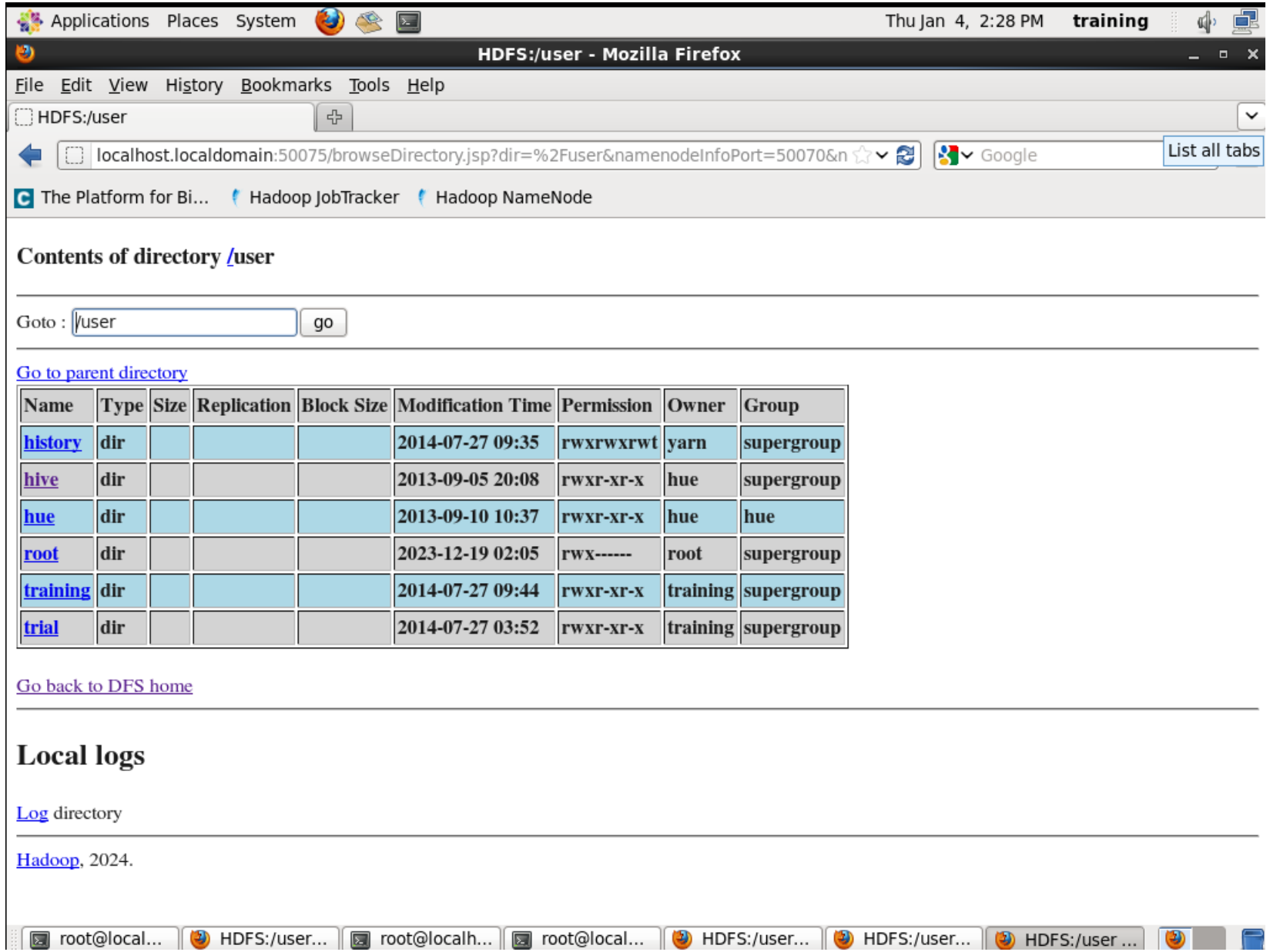
```
hive> CREATE TABLE food_delivery_static_partitioned (  ID INT,  Delivery_person_ID INT,  Delivery_person_Age INT,  Delivery_p
erson_Ratings FLOAT,  Restaurant_latitude FLOAT,  Restaurant_longitude FLOAT,  Delivery_location_latitude FLOAT,  Delivery_lo
cation_longitude FLOAT,  Type_of_vehicle STRING,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

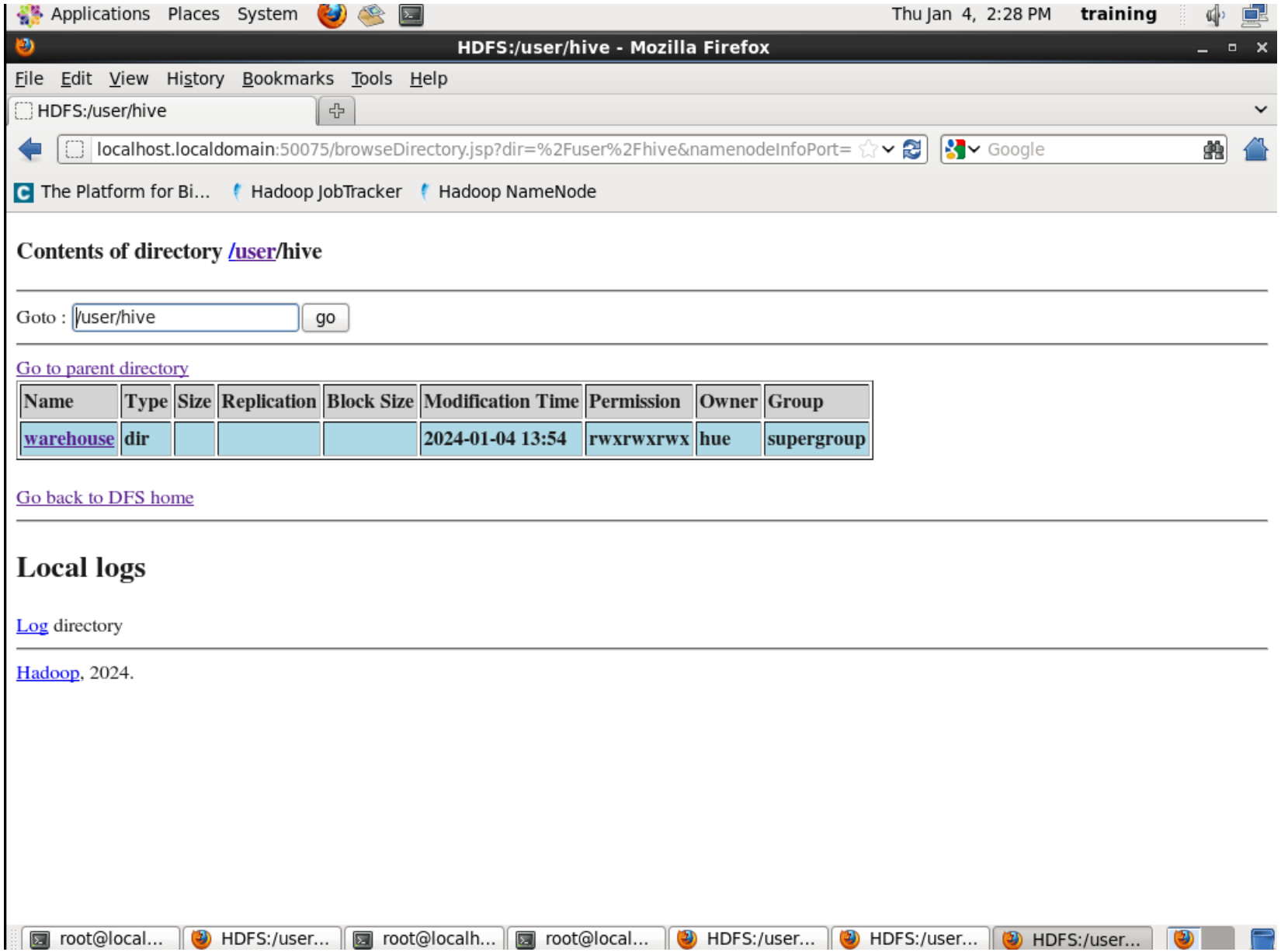
```
hive>
    > LOAD DATA LOCAL INPATH '/home/training/food'
    > INTO TABLE food_delivery_static_partitioned
    > PARTITION (Type_of_order= 'snack');
Copying data from file:/home/training/food
Copying file: file:/home/training/food
Loading data to table default.food_delivery_static_partitioned partition (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;
```

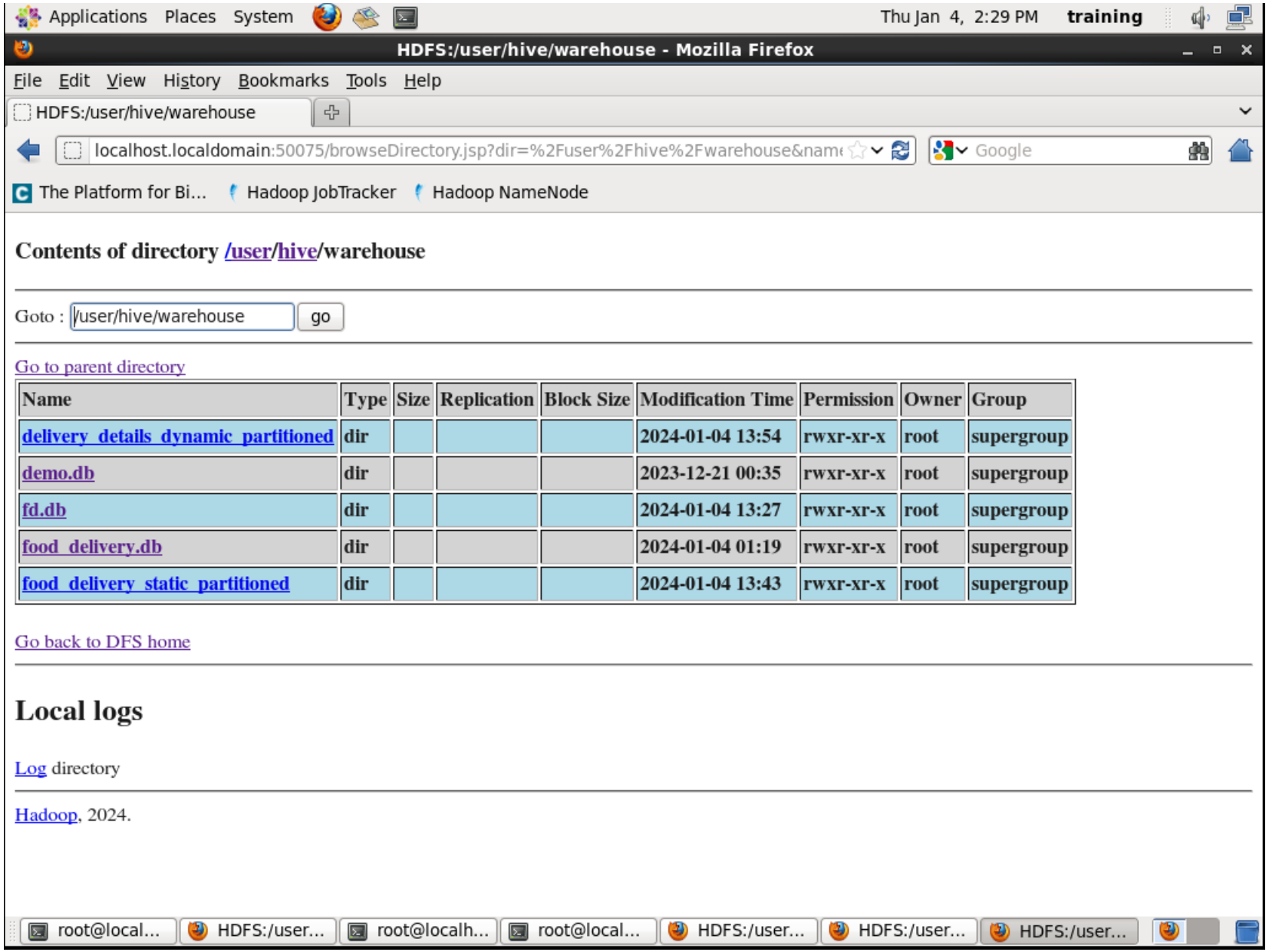
```
hive> CREATE TABLE delivery_details_dynamic_partitioned (  ID INT,  Delivery_person_ID INT,  Delivery_person_Age INT,  Delive
ry_person_Ratings INT,  Restaurant_latitude FLOAT,  Restaurant_longitude FLOAT,  Delivery_location_latitude FLOAT,  Delivery_
location_longitude FLOAT,  Type_of_order STRING,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

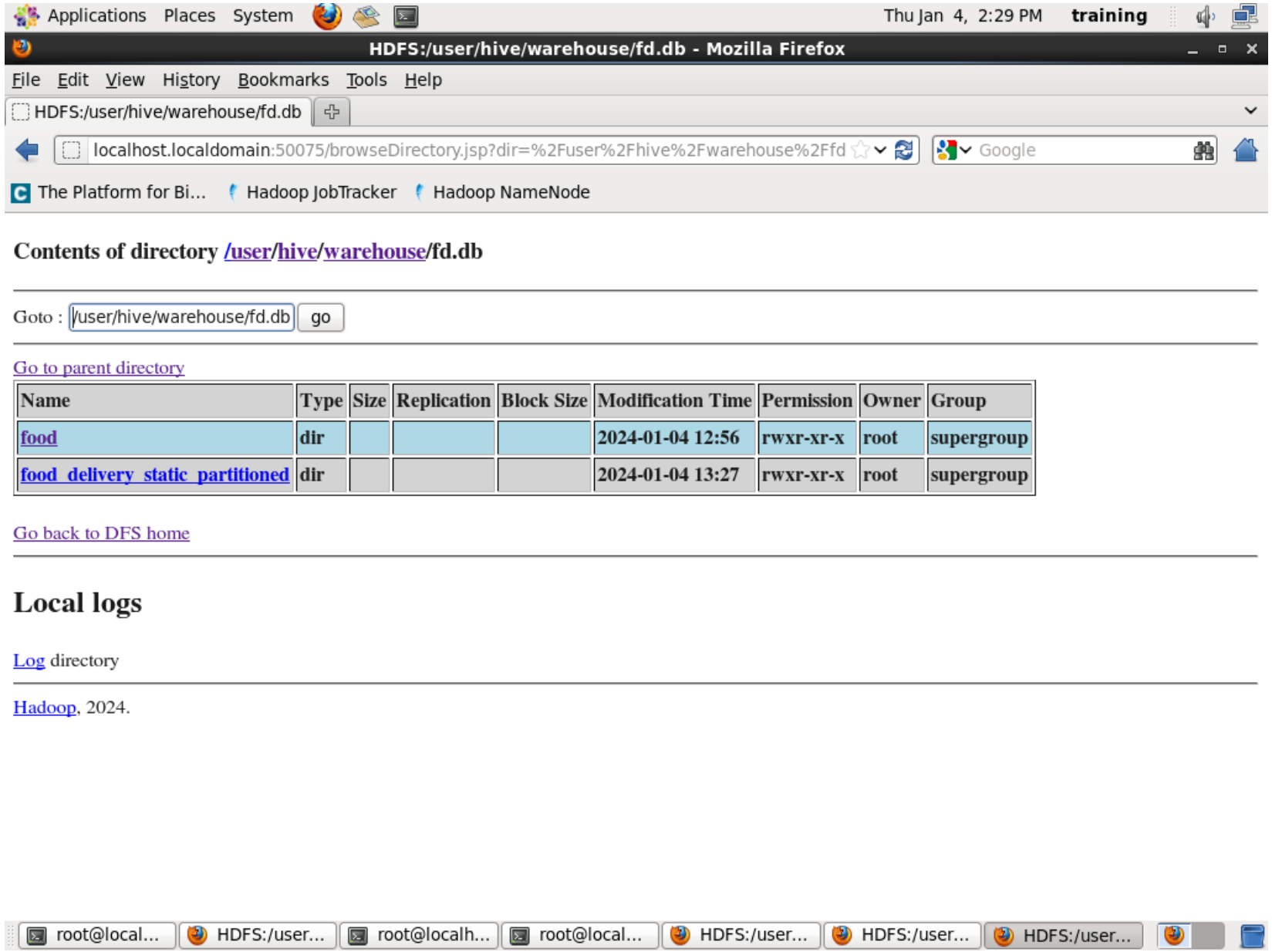
```
hive> insert into table delivery_details_dynamic_partitioned partition(Time_taken) select ID,Delivery_person_ID,Delivery_pers
on_Age,Delivery_person_Ratings,Resturant_latitude,Restaurant_longitude,Delivery_location_latitude, Delivery_location_longitud
e,Type_of_order,Type_of_vehicle,Time_taken from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


Applications Places System
Thu Jan 4, 2:27 PM training
HDFS:/ - Mozilla Firefox
File Edit View History Bookmarks Tools Help
HDFS:/
localhost.localdomain:50075/browseDirectory.jsp?namenodeInfoPort=50070&dir=/&nnaddr=l
Google
The Platform for Bi...
Hadoop JobTracker
Hadoop NameNode
Contents of directory /
Goto : / go
Name Type Size Replication Block Size Modification Time Permission Owner Group
fd dir 2024-01-04 13:21 rwxr-xr-x root supergroup
hbase dir 2024-01-02 23:28 rwxr-xr-x hbase supergroup
tmp dir 2023-12-19 01:58 rwxrwxrwt hdfs supergroup
user dir 2023-12-19 02:05 rwxrwxrwx hue supergroup
var dir 2014-07-27 09:23 rwxr-xr-x hdfs supergroup
your_project_directory dir 2024-01-04 13:01 rwxr-xr-x root supergroup
Go back to DFS home
Local logs
Log directory
Hadoop, 2024.
root@local...
HDFS:/user...
root@localh...
root@local...
HDFS:/user...
HDFS:/user...
HDFS:/ - M...


Applications Places System
Thu Jan 4, 2:28 PM training
HDFS:/user - Mozilla Firefox
File Edit View History Bookmarks Tools Help
HDFS:/user
localhost.localdomain:50075/browseDirectory.jsp?dir=%2Fuser&namenodeInfoPort=50070&n
Google
List all tabs
The Platform for Bi...
Hadoop JobTracker
Hadoop NameNode
Contents of directory /user
Goto : /user
go
Go to parent directory
Name Type Size Replication Block Size Modification Time Permission Owner Group
history dir 2014-07-27 09:35 rwxrwxrwt yarn supergroup
hive dir 2013-09-05 20:08 rwxr-xr-x hue supergroup
hue dir 2013-09-10 10:37 rwxr-xr-x hue hue
root dir 2023-12-19 02:05 rwx------ root supergroup
training dir 2014-07-27 09:44 rwxr-xr-x training supergroup
trial dir 2014-07-27 03:52 rwxr-xr-x training supergroup
Go back to DFS home
Local logs
Log directory
Hadoop, 2024.
root@local...
HDFS:/user...
root@localh...
root@local...
HDFS:/user...
HDFS:/user...
HDFS:/user ...


Applications Places System
Thu Jan 4, 2:28 PM training
HDFS:/user/hive - Mozilla Firefox
File Edit View History Bookmarks Tools Help
HDFS:/user/hive
localhost.localdomain:50075/browseDirectory.jsp?dir=%2Fuser%2Fhive&namenodeInfoPort=
Google
The Platform for Bi...
Hadoop JobTracker
Hadoop 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
warehouse dir 2024-01-04 13:54 rwxrwxrwx hue supergroup
Go back to DFS home
Local logs
Log directory
Hadoop, 2024.
root@local...
HDFS:/user...
root@localh...
root@local...
HDFS:/user...
HDFS:/user...
HDFS:/user...


Applications Places System
Thu Jan 4, 2:29 PM training
HDFS:/user/hive/warehouse - Mozilla Firefox
File Edit View History Bookmarks Tools Help
HDFS:/user/hive/warehouse
localhost.localdomain:50075/browseDirectory.jsp?dir=%2Fuser%2Fhive%2Fwarehouse&name
Google
The Platform for Bi...
Hadoop JobTracker
Hadoop 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
delivery_details_dynamic_partitioned dir 2024-01-04 13:54 rwxr-xr-x root supergroup
demo.db dir 2023-12-21 00:35 rwxr-xr-x root supergroup
fd.db dir 2024-01-04 13:27 rwxr-xr-x root supergroup
food_delivery.db dir 2024-01-04 01:19 rwxr-xr-x root supergroup
food_delivery_static_partitioned dir 2024-01-04 13:43 rwxr-xr-x root supergroup
Go back to DFS home
Local logs
Log directory
Hadoop, 2024.
root@local...
HDFS:/user...
root@localh...
root@local...
HDFS:/user...
HDFS:/user...
HDFS:/user...


Applications Places System
Thu Jan 4, 2:29 PM training
HDFS:/user/hive/warehouse/fd.db - Mozilla Firefox
File Edit View History Bookmarks Tools Help
HDFS:/user/hive/warehouse/fd.db
localhost.localdomain:50075/browseDirectory.jsp?dir=%2Fuser%2Fhive%2Fwarehouse%2Ffd
Google
The Platform for Bi...
Hadoop JobTracker
Hadoop NameNode
Contents of directory /user/hive/warehouse/fd.db
Goto : /user/hive/warehouse/fd.db go
Go to parent directory
Name Type Size Replication Block Size Modification Time Permission Owner Group
food dir 2024-01-04 12:56 rwxr-xr-x root supergroup
food_delivery_static_partitioned dir 2024-01-04 13:27 rwxr-xr-x root supergroup
Go back to DFS home
Local logs
Log directory
Hadoop, 2024.
root@local...
HDFS:/user...
root@localh...
root@local...
HDFS:/user...
HDFS:/user...
HDFS:/user...