doop Hive Date Functions and Examples

Updated on September 30, 2019 by Vithal S

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y applications manipulate the date and time values. Latest oop Hive query language support most of relational database functions. In this article, we will check commonly used Hadoop date functions and some of examples on usage of those tions.

op Hive Date Functions

types are highly *formatted* and very *complicated*. Each date contains the century, year, month, day, hour, minute, and nd. We shall see how to use the Hadoop Hive date functions an examples. You can use these functions as Hive date ersion functions to manipulate the date data type as per the cation requirements. Below are the most commonly used oop Hive DateTime functions:

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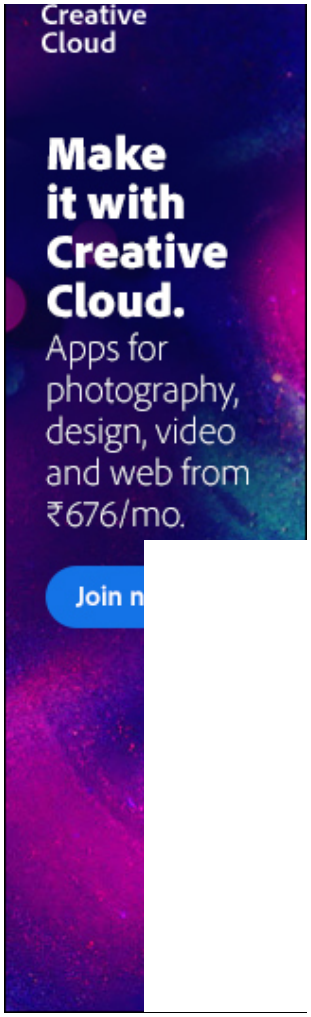
ent_timestamp()	Returns the current date and time of the system. There is no now() function is Hadoop Hive.
ent_date()	Returns the current date of the system without any time part.
months(timestamp date, int ths)	Adds month value to specified date or timestamp values.
ate(timestamp date)	Converts Hive timestamp value to date data type.
_add(timestamp startdate, ays)	Adds days to specified timestamp value. Hive does not support interval data type in date_add. You can use interval type directly to add or substract from date values
_sub(timestamp startdate, ays)	Substract specified number of days from the date or timestamp value.
	timestamp startdate)
diff(timestamp enddate, stamp startdate)	Returns number of days between the two date or timestamp values.
_unixtime(bigint unixtime[, g format])	Converts the number of seconds from the Unix epoch to the



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h(timestamp , minute(timestamp date), (timestamp date), imestamp date), nd(timestamp date)	Returns month, minutes, hours, days, seconds from the timestamp.
c(timestamp, string unit)	Strips off fields from a TIMESTAMP value.
_timestamp()	Gets current time stamp using the default time zone.
_timestamp(string date)	Converts time string in format yyyy-MM-dd HH:mm:ss to Unix time stamp.
_utc_timestamp(timestamp, g timezone)	Converts a specified UTC timestamp value into the appropriate value for a specified time zone

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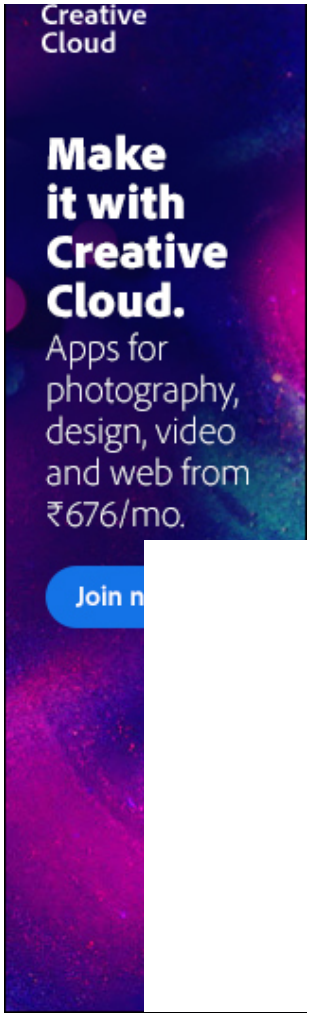
current date and timestamp using HiveQL



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```
> select current_timestamp();

-10-01 00:54:14.736
 taken: 0.65 seconds, Fetched: 1 row(s)

> select current_date();

-10-01
 taken: 0.161 seconds, Fetched: 1 row(s)
```

1 day to current date using HiveQL

```
> select date_add(current_date(), 1);

-10-02
 taken: 0.123 seconds, Fetched: 1 row(s)
```

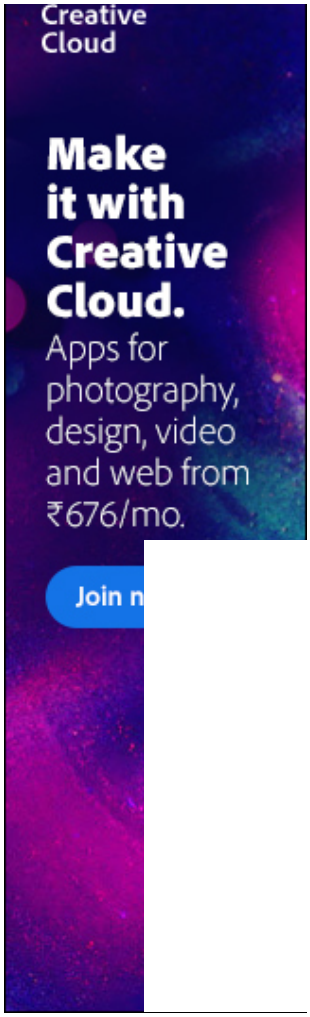
ract 1 day from current date using HiveQL

```
> select date_sub(current_date(),1);

-09-30
 taken: 0.107 seconds, Fetched: 1 row(s)
```

irst day of the given timstamp using HiveQL

```
> select trunc(current_timestamp(), 'MONTH');

-10-01
 taken: 0.072 seconds, Fetched: 1 row(s)
```

ert timestamp to date format using HiveQL



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```
-10-01
 taken: 0.08 seconds, Fetched: 1 row(s)
```

type conversion using Cast function in HiveQL

```
> select cast(current_timestamp() as date);

-10-01
 taken: 0.094 seconds, Fetched: 1 row(s)
```

ert Timestamp to YYYYMMDD format using HiveQL

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```
> select from_unixtime(unix_timestamp(current_date()),
yMMdd');

0001
 taken: 0.078 seconds, Fetched: 1 row(s)
```

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ories: BigData
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ments

Dhanesh Padmanabhan says
December 18, 2017 at 1:42 pm

spotted a few typos. 'yyyymmdd' should be "yyyyMMdd'.
date_add and date_sub adds and subtracts 1 day, not 1
month.

Vithal Sampagar says
December 19, 2017 at 2:49 am

Hi Dhanesh,

Thanks for writing back! Corrected typos.

'yyyymmdd' is also accepted in Hive. Below is the example for your reference:

```
hive> select
from_unixtime(unix_timestamp(current_date()),
```

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```
20170019
Time taken: 1.196 seconds, Fetched: 1 row(s)
```

Shiv says
February 23, 2018 at 2:22 am

mm returns 00, it should be MM and also dd should always be dd.

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I'm Vithal, a techie by profession, passionate blogger, frequent traveler, Beer lover and many more.. I write about Big Data, Data Warehouse technologies, Databases, and other general software related stuffs.

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