

HIVE

Практика

WPROLAB.COM

Списки объектов

- show databases;
- show tables [in 'db name']
- show partitions <tbl_name>
- show create table <tbl_name>

Таблицы

 Regular **CREATE TABLE users** user_id int, age int, gender string, occupation string, zip string **ROW FORMAT DELIMITED** FIELDS TERMINATED BY '|';

Таблицы

 External create external table genre name string, id int **ROW FORMAT DELIMITED** FIELDS TERMINATED BY '|' location '/user/anton.pilipenko/npl/';

```
CREATE TABLE users
user_id int,
age int,
gender string,
occupation string,
zip string
ROW FORMAT DELIMITED
FIELDS TERMINATED BY '|';
```

```
create table movies
movie_id int, movie_title string, release_date string,
video release date string, IMDbURL string, unknown int,
Action int, Adventure int, Animation int, Childrens int,
Comedy int, Crime int, Documentary int, Drama int, Fantasy
int, FilmNoir int,
Horror int, Musical int, Mystery int, Romance int, SciFi int,
Thriller int, War int, Western int
row format delimited
fields terminated by '\|';
```

```
CREATE TABLE rating
user id int,
item_id int,
rating int
ROW FORMAT DELIMITED
FIELDS TERMINATED BY '\t'
```

```
create external table genre
 name string,
 id int
ROW FORMAT DELIMITED
FIELDS TERMINATED BY '|'
location '/user/anton.pilipenko/npl/';
```

Загрузка данных

load data <local> inpath
'/user/anton.pilipenko/npl/rating.data'
into table rating;

получить средний возраст пользователей

получить средний возраст пользователей

select avg(age)
from users;

для пользователей старше 21 года получить статистику количества пользователей в разрезе возраста только для тех групп в которых более 10 человек

```
select count(*) cnt, age from users
where age > 21
group by age
having count(*) > 10
order by age;
```

получить название, минимальную, максимальную и среднюю оценки комедий, отсортированны по убыванию среднего рейтинга

min(rating) min rating,

max(rating) max rating,

Select

Виртуальные поля

```
select INPUT__FILE__NAME,
BLOCK__OFFSET__INSIDE__FILE,
m.*
from movies m;
```

Партиционирование

```
CREATE TABLE rating_parted(
user_id int,
item_id int)

partitioned by (rating int)

ROW FORMAT DELIMITED

FIELDS TERMINATED BY '\t';
```

Партиционирование

```
insert into table rating_parted partition
(rating=1)
select t.user_id, t.item_id from rating t where
t.rating=1;
```

Выгрузки данных

```
insert overwrite local directory '/home/apilipenko/result.csv'
ROW FORMAT DELIMITED FIELDS TERMINATED BY '\;'
select /*+ MAPJOIN(dbl) */ t.ban,
t.subscriber no,
t.imsi,
lag(t.imsi) over (partition by t.ban, t.subscriber no order by
eff date time) old imsi,
t.eff_date_time,
t.exp_date_time
from subscriber sim t
join (select ban, subscriber_no from subscriber_sim where
eff_date_time >= '2015-07-27' and eff_date_time < '2015-08-03' group
by ban, subscriber_no ) dbl on (dbl.ban = t.ban and dbl.subscriber_no
= t.subscriber no);
```