

## Code

**Creating database :** CREATE DATABASE project;

**Using the database:** USE project;

### Creating users table:

```
CREATE TABLE users ( UserID VARCHAR(50), SignupDate DATE, UserSegment  
VARCHAR(20) );
```

### Creating visitors table:

```
CREATE TABLE visitors ( webClientID VARCHAR(50), VisitDateTime DATE,  
ProductID VARCHAR(50) , UserID VARCHAR(50), Activity VARCHAR(30), Browser  
VARCHAR(50), OS VARCHAR(50), City VARCHAR(255), Country VARCHAR(255)  
);
```

### Loading Data:

**Mysql:** SET GLOBAL local\_infile=1

**command prompt:** mysql --local-infile=1 -u root -p

**Mysql:** load data local infile "<path\_to\_file>" into table visitor columns terminated by ","  
ignore 1 lines;

### No\_Of\_Products\_Viewed\_15\_Days

```
create table no_of_products_viewed select users.UserID,count(distinct visitors.ProductID)  
No_Of_Products_Viewed_15_Days from users left join visitors on users.UserID=visitors.UserID  
AND visitors.VisitDateTime >= "2018-05-28" – INTERVAL 15 day group by users.UserID  
order by users.UserID limit 10;
```

### No\_of\_days\_Visited\_7\_Days

```
create table no_of_days_visited select users.UserID ,count(distinct  
visitors.VisitDateTime) No_of_days_Visited_7_Days from users left join visitors on  
users.UserID=visitors.UserID AND visitors.VisitDateTime >= "2018-05-28" – INTERVAL 7  
day group by users.UserID order by users.UserID limit 10;
```

### User\_Vintage

```
create table user_vintage select UserID,DATEDIFF("2018-05-28", SignupDate)  
User_Vintage from users order by UserID limit 10;
```

### **Pageloads\_last\_7\_days**

```
create table pageloads select users.UserID,count(visitors.Activity)
Pageloads_last_7_days from users left join visitors on users.UserID=visitors.UserID
AND visitors.VisitDateTime >= "2018-05-28" - INTERVAL 7 day AND
lower(activity)="pageload" group by users.UserID order by users.UserID limit 10;
```

### **Clicks\_last\_7\_days**

```
create table clicks select users.UserID,count(visitors.Activity) Clicks_last_7_days from
users left join visitors on users.UserID=visitors.UserID AND visitors.VisitDateTime >=
"2018-05-28" - INTERVAL 7 day AND lower(activity)="click" group by
users.UserID order by users.UserID limit 10;
```

### **Most\_Active\_OS**

```
create table most_active_os with grouped as (select UserID, OS, count(*) as
count_of_OS from visitors group by UserID, OS),final as (select UserID, OS, count_of_OS,
ROW_NUMBER() OVER(PARTITION BY UserID ORDER BY count_of_OS DESC) AS Row_N
from grouped) select UserID, OS as Most_Active_OS, count_of_OS from final where
Row_N = 1;
```

## **Most\_Viewed\_product\_15\_Days**

```
create table asd select a.UserID,max(a.ProductID) as Most_Viewed_product_15,count(a.Activity)
over(partition by a.UserID,a.ProductID) as cnt,row_number() over(partition by a.UserID order by a.
VisitDateTime DESC) rnk from visitors a join users b on a.UserID=b.UserID where a.
VisitDateTime>=2018-05-13 and lower(a.Activity)='pageload' and a.ProductID !='' group by
a.UserID,a.ProductID,a. VisitDateTime ORDER BY a.UserID ASC;
```

```
CREATE TABLE most_viewed_product select UserID, Most_Viewed_product_15 ,row_number()
over(partition by UserID order by cnt desc) as adhoc from asd where rnk=1;
```

```
create table most_viewed_product_15_days select
users.userID,most_viewed_product.Most_Viewed_product_15,if(most_viewed_product.Most_Viewed_
product_15 is NULL,"Product101",most_viewed_product.Most_Viewed_product_15)
Most_Viewed_product_15_Days  from users left join most_viewed_product on
users.UserID=most_viewed_product.UserID order by  users.userID limit 10;
```

## **Recently\_Viewed\_Product**

```
create table abc select a.UserID,max(a.ProductID) as Recently_Viewed,row_number()
over(partition by a.UserID order by a.VisitDateTime DESC) rnk from visitors a join users b on
a.UserID=b.UserID where a. VisitDateTime>=2018-05-13 and lower(a.Activity)='pageload' and
a.ProductID !=' ' and a.VisitDateTime is not null group by
a.UserID,a.ProductID,a. VisitDateTime ORDER BY a.UserID ASC;
```

```
create table recently_viewed select * from abc where rnk=1;
```

```
create table recently_viewed_product select users.userID, recently_viewed.
Recently_Viewed,if(recently_viewed. Recently_Viewed is NULL or recently_viewed.Recently_Viewed =
","Product101", recently_viewed. Recently_Viewed) Recently_Viewed_Product from users left join
recently_viewed on users.UserID= recently_viewed.UserID order by  users.userID limit 30;
```

### Input Feature table:

```
create table input_feature select
users.UserID,no_of_days_visited.No_of_days_Visited_7_Days,no_of_products_viewed.No_Of_Products
_Viewed_15_Days,user_vintage.User_Vintage,mmost_viewed_product_15_days.Most_Viewed_product_
15_Days,
most_active_os.Most_Active_OS,recently_viewed_product.Recently_Viewed_Product,pageloads.Pagelo
ads_last_7_days,clicks.Clicks_last_7_days from users join no_of_days_visited      on
users.UserID=no_of_days_visited.UserID join no_of_products_viewed on
users.UserID=no_of_products_viewed.UserID join user_vintage on users.UserID=user_vintage.UserID
join most_viewed_product_15_days on      users.UserID =most_viewed_product_15_days.UserID join
most_active_os on users.UserID=most_active_os.UserID join recently_viewed_product on
users.UserID=recently_viewed_product.UserID join pageloads on      users.UserID=pageloads.UserID
join clicks on users.UserID=clicks.UserID order by users.UserID limit 10;
```

### MySQL Export Table to CSV

```
Select @@global.secure_file_priv;
```

```
SELECT 'UserID', 'No_of_days_Visited_7_Days', 'No_Of_Products_Viewed_15_Days',
'User_Vintage', 'Most_Viewed_product_15_Days', 'Most_Active_OS', 'Recently_Viewed
_Product', 'Pageloads_last_7_days', 'Clicks_last_7_days'
```

```
UNION ALL
```

```
SELECT UserID, No_of_days_Visited_7_Days, No_Of_Products_Viewed_15_Days,
User_Vintage, Most_Viewed_product_15_Days ,Most_Active_OS, Recently_Viewed_Pro
duct, Pageloads_last_7_days, Clicks_last_7_days
```

```
FROM input_feature
```

```
INTO OUTFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/input_
feature.csv' fields terminated by "," lines terminated by "\n";
```