DBMS ASSIGNMENT-1

TITLE:

ONLINE STREAMING OF VIDEOS DATABASE MAINTENANCE SYSTEM

TITLE:ONLINE VIDEOSTREAMING

1602-18-737-104

-M.SANNIHITHA

ABSTRACT

This project is an application software developed for monitoring the online video streaming which mainly focuses on basic operations like uploading a video, updating new information, searching videos and identifying the members who are genuinely watching the video. The ADMIN consists the information regarding users and monitors their video watching. Genuineness is all matters for every view. Now a days ,users are just dragging and forwarding the video for sake of completing the video and this is the scenario where our application enters. It provides information and details of every video watched and tells whether it is genuine or not and by which user.

This application aims to provide a structured approach that admin can use identify the members who watch the video genuinely and generate reports accordingly.

REQUIREMENTS ANALYSIS

List of Tables:

1. USERS
2. ADMIN
3. VIDEOS
4. UPLOADS
5. VIEWS

List of attributes with their domain types:

USERS:

User ID: uid-NUMBER()

User name: name-VARCHAR()

User age: age-NUMBER()

User password: password VARCHAR()

ADMIN:

Admin ID: aid-NUMBER()

Admin name: name-VARCHAR()

Admin age: age-NUMBER()

VIDEOS:

Video ID: vid-NUMBER()

Video duration: duration-NUMBER()

Number of views: numviews-NUMBER()

Video topic: topic-VARCHAR()

UPLOADS:

Time of uploading: when-NUMBER()

VIEWS:

Genuineness of video viewed: genuineness-VARCHAR()

DBMS

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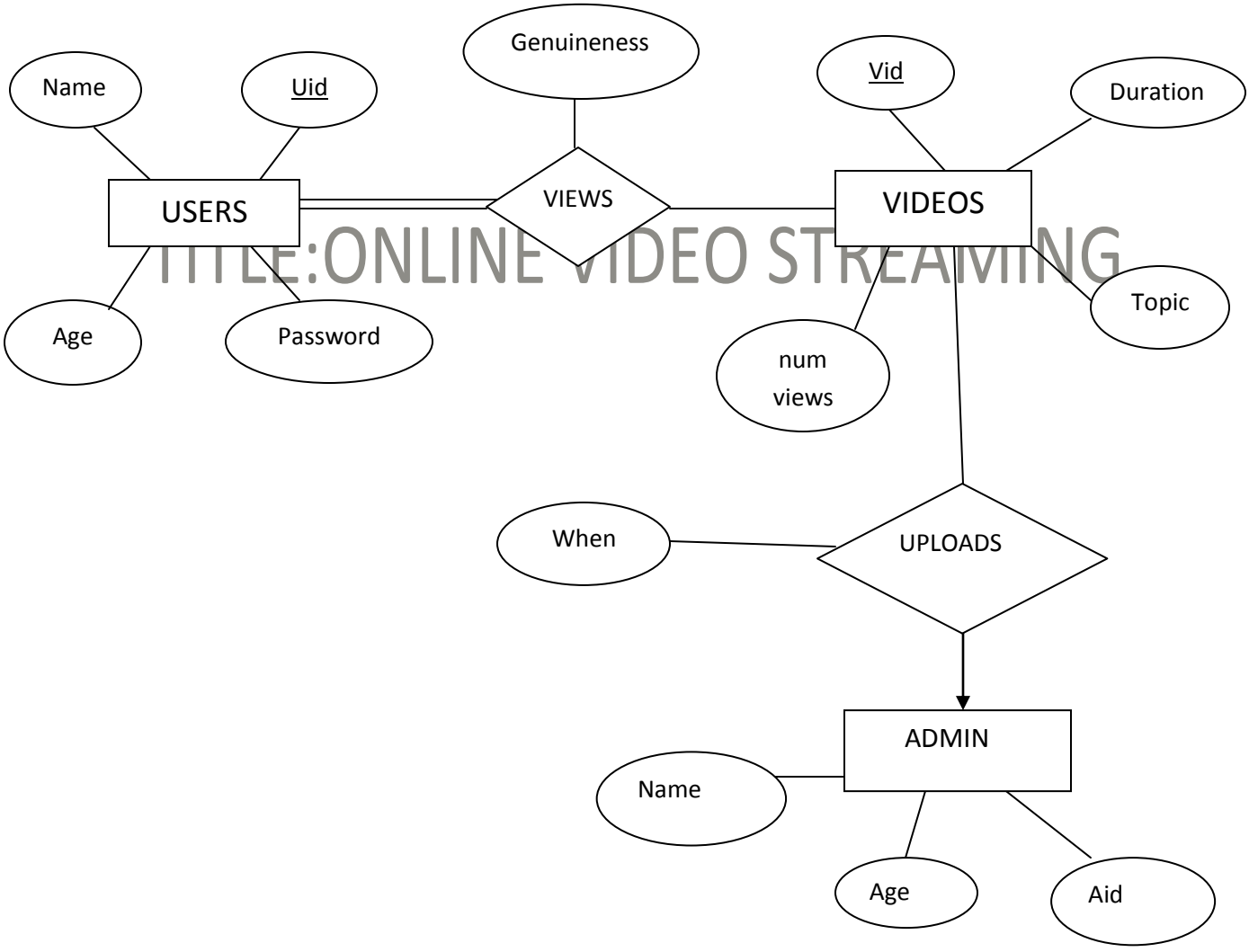
ONLINE STREAMING OF VIDEOS DATABASE MAINTENEANCE SYSTEM

ENTITY-RELATIONSHIP DIAGRAM



Mapping Cardinalities and Participation Constraints:

A user can watch as many as videos as desired but all videos need not be watched by atleast one user. So, many to many participation between users and views and one to one mapping for views and videos.

As of now, there is only one admin so only one entity not a set.

Genuineness is the descriptive attribute of views table and it tells if a view is genuine or not.

When is the descriptive attribute of uploads tabe and it gives when the video was uploaded by the admin.

OUTPUTS

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DDL COMMANDS

1.USERS

```
SQL> create table users(usid NUMBER(5) Primary key,name VARCHAR(10),password VARCHAR(10),age NUMBER(5));

Table created.

SQL> desc users;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 USID                                      NOT NULL NUMBER(5)
 NAME                                               VARCHAR2(10)
 PASSWORD                                           VARCHAR2(10)
 AGE                                                NUMBER(5)

SQL>
```

2.VIDEOS


```
SQL> create table videos(vid NUMBER(5) Primary key,duration NUMBER(5),topic VARCHAR(10),numviews NUMBER(5));

Table created.

SQL> desc videos
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 VID                                       NOT NULL NUMBER(5)
 DURATION                                           NUMBER(5)
 TOPIC                                              VARCHAR2(10)
 NUMVIEWS                                           NUMBER(5)

SQL>
```

3.ADMIN

```
SQL> create table admin(aid NUMBER(5) Primary key,name NUMBER(5),age NUMBER(5));

Table created.

SQL> desc admin;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 AID                                       NOT NULL NUMBER(5)
 NAME                                               NUMBER(5)
 AGE                                                NUMBER(5)

SQL>
```

4.VIEWS

```
SQL> create table views(usid NUMBER(5),vid NUMBER(5),genuineness VARCHAR(5),foreign key(usid) references users,foreign key(vid)
 references videos);

Table created.

SQL> desc views;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 USID                                               NUMBER(5)
 VID                                                NUMBER(5)
 GENUINENESS                                        VARCHAR2(5)

SQL>
```

5.UPLOADS


```
SQL> create table uploads(vid NUMBER(5),aid NUMBER(5),since VARCHAR(5),foreign key(vid) references videos,foreign key(aid) references admin,primary key(vid,aid));

Table created.

SQL> desc uploads
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 VID                                       NOT NULL NUMBER(5)
 AID                                       NOT NULL NUMBER(5)
 SINCE                                              VARCHAR2(5)

SQL>
```

DML COMMANDS

1.USERS

```
new   1: insert into users values(45,'sri','xyz',19)

1 row created.

SQL> /
Enter value for usid: 77
Enter value for name: vamsi
Enter value for password: secret
Enter value for age: 22
old   1: insert into users values(&usid,'&name','&password',&age)
new   1: insert into users values(77,'vamsi','secret',22)

1 row created.

SQL> /
Enter value for usid: 100
Enter value for name: ria
Enter value for password: efg
Enter value for age: 16
old   1: insert into users values(&usid,'&name','&password',&age)
new   1: insert into users values(100,'ria','efg',16)

1 row created.

SQL> /
Enter value for usid: 104
Enter value for name: manu
Enter value for password: paga
Enter value for age: 19
old   1: insert into users values(&usid,'&name','&password',&age)
new   1: insert into users values(104,'manu','paga',19)

1 row created.

SQL> select * from users;

      USID NAME       PASSWORD          AGE
---------- ---------- ---------- ----------
       203 jai        abc                17
        45 sri        xyz                19
        77 vamsi      secret             22
       100 ria        efg                16
       104 manu       paga               19
```

2.VIDEOS

```
SQL> insert into videos values(&vid,&duration,'&topic',&numviews);
Enter value for vid: 473
Enter value for duration: 29
Enter value for topic: sds
Enter value for numviews: 444
old   1: insert into videos values(&vid,&duration,'&topic',&numviews)
new   1: insert into videos values(473,29,'sds',444)

1 row created.

SQL> /
Enter value for vid: 1111
Enter value for duration: 35
Enter value for topic: python
Enter value for numviews: 144
old   1: insert into videos values(&vid,&duration,'&topic',&numviews)
new   1: insert into videos values(1111,35,'python',144)

1 row created.

SQL> /
Enter value for vid: 7538
Enter value for duration: 15
Enter value for topic: matlab
Enter value for numviews: 88
old   1: insert into videos values(&vid,&duration,'&topic',&numviews)
new   1: insert into videos values(7538,15,'matlab',88)

1 row created.

SQL> select * from videos;

       VID   DURATION TOPIC        NUMVIEWS
---------- ---------- ---------- ----------
      2637         20 stats             100
      7438         25 algebra            28
       473         29 sds               444
      1111         35 python            144
      7538         15 matlab             88

SQL>
```

3.ADMIN

```
SQL>
SQL> insert into admin values(&aid,'&name',&age);
Enter value for aid: 299
Enter value for name: sannihitha
Enter value for age: 18
old   1: insert into admin values(&aid,'&name',&age)
new   1: insert into admin values(299,'sannihitha',18)

1 row created.

SQL> select * from admin;

       AID NAME                 AGE
---------- --------------- ----------
       299 sannihitha              18

SQL>
```

4.VIEWS

Run SQL Command Line

```
1 row created.

SQL> /
Enter value for usid: 166
Enter value for vid: 473
Enter value for genuineness: yes
old   1: insert into views values(&usid,&vid,'&genuineness')
new   1: insert into views values(166,473,'yes')

1 row created.

SQL> /
Enter value for usid: 104
Enter value for vid: 1111
Enter value for genuineness: no
old   1: insert into views values(&usid,&vid,'&genuineness')
new   1: insert into views values(104,1111,'no')

1 row created.

SQL> /
Enter value for usid: 203
Enter value for vid: 2637
Enter value for genuineness: no
old   1: insert into views values(&usid,&vid,'&genuineness')
new   1: insert into views values(203,2637,'no')

1 row created.

SQL> select * from views;

      USID        VID GENUI
---------- ---------- -----
        77       7438 yes
       100       1111 no
        77       7538 no
       166        473 yes
       104       1111 no
       203       2637 no

6 rows selected.

SQL>
```

5.UPLOADS

Run SQL Command Line

```
Enter value for since: 5 days
old   1: insert into uploads values(&vid,&aid,'&since')
new   1: insert into uploads values(473,299,'5 days')

1 row created.

SQL> /
Enter value for vid: 7538
Enter value for aid: 299
Enter value for since: 1 hour
old   1: insert into uploads values(&vid,&aid,'&since')
new   1: insert into uploads values(7538,299,'1 hour')

1 row created.

SQL> /
Enter value for vid: 2637
Enter value for aid: 299
Enter value for since: 1 week
old   1: insert into uploads values(&vid,&aid,'&since')
new   1: insert into uploads values(2637,299,'1 week')

1 row created.

SQL> /
Enter value for vid: 7438
Enter value for aid: 299
Enter value for since: 5 hours
old   1: insert into uploads values(&vid,&aid,'&since')
new   1: insert into uploads values(7438,299,'5 hours')

1 row created.

SQL> select * from uploads;

       VID        AID SINCE
---------- ---------- --------------------
      1111        299 20 min
       473        299 5 days
      7538        299 1 hour
      2637        299 1 week
      7438        299 5 hours

SQL>
```