

DBMS ASSIGNMENT-1

TITLE:

**ONLINE STREAMING
OF VIDEOS DATABASE
MAINTENANCE
SYSTEM**

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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:

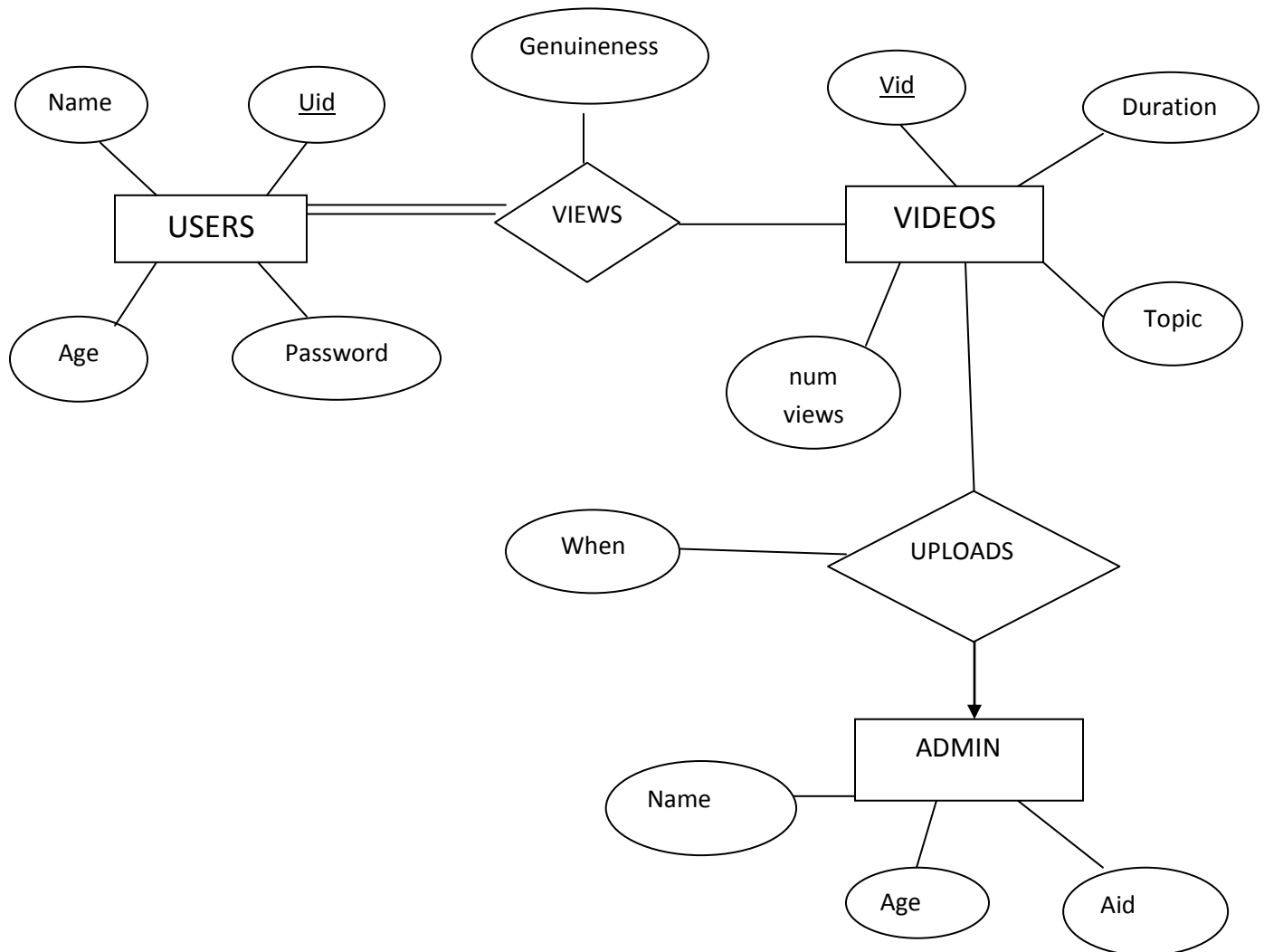
Time of uploading: when-NUMBER()

VIEWS:

Genuineness of video viewed: genuineness-VARCHAR()

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 table and it gives when the video was uploaded by the admin.

OUTPUTS

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

SQL> 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> _
```