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| |  | | --- | | **SRM UNIVERSITY**  **C:\Users\hp\Desktop\srm_logo.png**    **DATABASE MANAGEMENT SYSTEM**    **(15IT302)**        project report on    **VIDEO HOSTING** | | **SUBMITTED BY:-** | |  |  |  |  | | --- | --- | | **REGISTER NUMBER** |  | | **NAME** |  | |

**15IT302J- Database Management Systems**

The purpose of this assessment is to assess the students’ understanding of simple database structure, logical design, SQL queries and Normalization

**Rubrics**

1. Requirements specification that addresses the need of the real world scenario (1 week)
2. Diagram of Entity relationship model which depicts the complete functionality of the system (1 week)
3. Design of Database framework using relational data base model and development of a strategy for implementing that database (1 week)
4. Based on the requirements you have determined, design a relational database model with relationship mapping (logical). Be sure to create the SQL assertions necessary to accomplish referential integrity and other constraints. (2 weeks)
5. Generation of reports using SQL (Simple queries, Aggregate functions, Nested queries, use of Join operators) (5 weeks)
6. Applying Normalization rules (1NF,2NF,3NF,BCNF) to standardize the tabular structure. (2 weeks)

**Table design (Objective 1,3,4 - 4 weeks) - 30 marks**

* Understanding of the Problem Domain (10)
* Database Framework ,Module description (10)
* Whether required fields added (5)
* Integrity Constraints and assertions (3)
* Redundancy removed among tables (2)

**ER Diagram (1 week) - 10 marks**

* Identification of strong and weak entities (2)
* Mapping cardinalities (3)
* All kinds of attributes (3)
* Extended features (Specialization and Generalization) (2)

**SQL Queries (5 weeks) - 40 marks**

* Simple queries (where, logical operators, delete, Alter, String,

Mathematical functions) (15)

* Aggregate functions(with having and group by) (5)
* Nested queries (10)
* SQL joins(Self join,left,right,full outer join) (10)

**Normalization (2 weeks) - -20 marks**

* 1 NF and 2NF (5+5)
* 3 NF and BCNF (5+5)

# 

# TABLE STRUCTURES

**SQL> desc ALL\_VIDEOS;**

Name Null? Type

----------------------------------------- -------- ----------------------------

V\_ID NOT NULL NUMBER(10)

V\_NAME VARCHAR2(30)

LIKES NUMBER(10)

DISLIKES NUMBER(10)

UPLOAD\_DATE DATE

**SQL> desc TRENDING;**

Name Null? Type

---------------------------------------- -------- ----------------------------

RANK NUMBER(10)

V\_NAME VARCHAR2(30)

LIKES VARCHAR2(10)

DISLIKES VARCHAR2(10)

DATE\_OF\_UPLOAD DATE

**SQL> desc USER\_TABLE;**

Name Null? Type

-------------------------------------- -------- ----------------------------

EMAIL VARCHAR2(20)

U\_NAME VARCHAR2(15)

DOB DATE

ROLE VARCHAR2(8)

**SQL> desc VIEWER;**

Name Null? Type

----------------------------------------- -------- ----------------------------

VIEW\_ID VARCHAR2(5)

EMAIL VARCHAR2(20)

USERNAME VARCHAR2(20)

DOB DATE

**SQL> desc UPLOADER;**

Name Null? Type

----------------------------------------- -------- ----------------------------

U\_ID VARCHAR2(5)

EMAIL VARCHAR2(20)

USERNAME VARCHAR2(15)

DOB DATE

NO\_OF\_VIDEOUPLOAD NUMBER(5)

**SQL> desc PHONE\_NUMBER;**

Name Null? Type

-------------------------------------- -------- ----------------------------

EMAIL VARCHAR2(20)

PHONE\_NUMBER NUMBER(10)

**SQL> select \* from all\_videos;**

V\_ID V\_NAME LIKES DISLIKES UPLOAD\_DATE UPLOADED\_BY

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1 How to cook food 15000 500 16-AUG-17 DIKSHIKA

2 Save data in sqlplus 10000 300 17-AUG-17 Monish De

3 SQL tutorial 1 70000 520 17-AUG-17 Shreya

4 How to catch a fly 127490 5200 20-AUG-17 Dikshika

5 Golddigger Prank 17490 2200 20-AUG-17 Nikhil

6 SQL Tutorial 2 77900 200 21-AUG-17 Dikshika

7 Documentary on Someone 75231 223 26-AUG-17 SHREYA

8 Dance Video 100 453 26-AUG-17 NIKHIL

9 Song Video 1000 1453 27-AUG-17 DIKSHIKA

10 Quick Fold 5627 453 28-AUG-17 NIKHIL

11 HTML Tutorial 2309 100 15-OCT-15 Monish De

12 Big Data Tutorial 89706 5 25-DEC-16 Shreya

13 Hadoop Installation 100 2 11-JAN-16 Dikshika

14 Photography Tutorial 15000 107 11-JAN-16 NIkhil

15 Movies 99876 500 01-NOV-17 Shreya

15 rows selected.

**SQL> select \* from user\_table;**

EMAIL U\_NAME DOB ROLE

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monishde@gmail.com MONISH DE 06-JUL-97 uploader

bhawana@gmail.com BHAWANA 20-DEC-96 viewer

shreya13@gmail.com SHREYA 13-AUG-97 uploader

dikshika3@gmail.com DIKSHIKA 23-MAY-97 uploader

supra04@gmail.com SUPRIYA 04-APR-97 viewer

kiran02@gmail.com KIRAN ROUT 02-APR-96 viewer

auntyji12@gmail.com MEGHNA 12-JUN-96 viewer

chotu07@gmail.com NIKHIL 07-JUL-98 uploader

aryatr@gmail.com ARYA 01-JAN-98 viewer

parirana@gmail.com PARIDHI 06-MAR-98 viewer

10 rows selected.

**SQL> select \* from Viewer;**

VIEW\_ EMAIL USERNAME DOB

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V\_01 bhawana@gmail.com BHAWANA 20-DEC-96

V\_02 supra04@gmail.com SUPRIYA 04-APR-97

V\_03 kiran02@gmail.com KIRAN ROUT 02-APR-96

V\_04 auntyji12@gmail.com MEGHNA 12-JUN-96

V\_05 aryatr@gmail.com ARYA 01-JAN-98

V\_06 parirana@gmail.com PARIDHI 06-MAR-98

6 rows selected.

**SQL> select \* from uploader;**

U\_ID EMAIL USERNAME DOB NO\_OF\_VIDEOUPLOAD

----- -------------------- --------------- --------- -----------------

U\_01 monishde@gmail.com MONISH DE 06-JUL-97 2

U\_02 shreya13@gmail.com SHREYA 13-AUG-97 4

U\_03 dikshika3@gmail.com DIKSHIKA 23-MAY-97 5

U\_04 chotu07@gmail.com NIKHIL 07-JUL-98 4

**SQL> select \* from trending;**

RANK V\_NAME LIKES DISLIKES DATE\_OF\_U

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6 How to cook food 15000 500 16-AUG-17

7 Save data in sqlplus 10000 300 17-AUG-17

4 SQL tutorial 1 70000 520 17-AUG-17

1 How to catch a fly 127490 5200 20-AUG-17

5 Golddigger Prank 17490 2200 20-AUG-17

2 SQL Tutorial 2 77900 200 21-AUG-17

3 Documentary on Someone 75231 223 26-AUG-17

7 rows selected.

**SQL> select \* from watch\_later;**

V\_NAME LIKES DISLIKES DATE\_OF\_U

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HTML Tutorial 2309 100 15-OCT-15

Big Data Tutorial 89706 5 25-DEC-16

Hadoop Installation 100 2 11-JAN-16

Photography Tutorial 15000 107 11-JAN-16

Movies 99876 500 01-NOV-17

SQL Tutorial 2 77900 200 21-AUG-17

6 rows selected.