**CSC303**

Aside high access rate to video downloading via popular sites like YouTube etc., video rentage is still a well patronize business. Assuming a friend is interested in this and consulted you as a database designer, kindly assist. OR should I assist too? I think I can since I am your Oga & I have promise to always be there for my students. So, let me assist you with this table – there should be three(3) major actors here, viz: Customers (that rent d videos), Rentage (that keeps track of the rentage) & Video (that shows the info of d videos been let out). Rentage here seems to be the centre/weak entity : weak in the database sense that, the main transactions is really between customers and videos, while it is centre in that, all the loads of the transactions is on him – what a pity, why will he not be weak.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| cus\_id | cus\_name | cus­\_addr | cus\_phone | cus\_mail | rent\_date | rent\_due\_date | return\_date | rent\_cost | video\_id | video\_name | video\_type (dvd or cd or audio etc) | video\_status (rented or not yet rented) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

Now, I have done my own part, you continue now:

1. Normalize the table, using the appropriate rules until the table is well-normalized (using MS-WORD)
2. Design a complete E-R model showing these interactions (using MS-VISIO)
3. Transform the model to a table design in MS-ACCESS (process and store the Relationship in MS-ACCESS for these three (3) fields)
4. Populate each table with ten (15) data each, using form wizard (during printing, present the view/data inputted using DATASHEET VIEW)
5. Fire query to show the most patronizing customer (using MAX function under CRITERIA)
6. Fire query to show the most rented video (film)
7. Fire query to show the most rented video type
8. Fire query to reveal all customers that defaulted in returning rented video as at when due
9. Generate a report (using REPORT Wizard) that shows all customers within repeating any (use DISTINCT function in your query SELECT Clause, store it, then generate the REPORT based on the query)
10. Generate a report (using REPORT Wizard) that shows all videos in my store, but highlighting their status as either RENTED or NOT YET RENTED, and showing the date of reporting too (e.g. VIDEOs in STORE REPORT as at 30/03/2016)

The whole thing is getting more interesting and my friend is becoming unsatisfactory. Lo, he wants to go online (e.g. something like box office online video rentage) – Can you? U don’t have idea – hymmmm, you should – a designer/developer has virtually knowledge of all things though may not necessarily be involved in them all.

Agreed to do it for him? Yes, I perceived. Ok. This will implies changes in the table structure as more actors/fields will come in; specifically, PAYMENT (taking care of payment details – who, how & when: Who paid, How did/can they pay – card, voucher etc. & track down when d payment was made – so as to know when to allow access/downloading of the clips), another is the SUPPLIER – or have you forgotten some people are supplying me the videos, take records of them too in your designing the database.

Now, modify Question 1 and then append the underlisted to the queries and solve.

1. Generate reports of all SUPPLIERS
2. Generate report of payments made on daily, weekly and monthly basis
3. Fire query to know which payment channel is mostly used
4. In case we want to discourage the use of a particular payment channel, kindly help fire a query to know the least used payment channel
5. Which supplier coincidentally supplied the most rented video? Fire!

Aaaah, Mr. Ajayi, this is much. Yes, I am viewing it that way too. This type of work shouldn’t go unrewarded, how do I reward it? I think it should serve as Test2 but in this style:

* Print out all answers to the Questions in Question 1 (10 questions – 5mks) and that of Question 2 (15 questions – 10mks, totaling 15mks). Do your free-printing with Mr. Ojo, L.F. (CSC Dept. Lab Technologist) – I would have told him.
* Design a page cover using the prototype shown below (next page).
* Submit your Assignment cum Test to him before he closes on Wednesday.

**CSC 303 ASSIGNMENTS cum TEST on NORMALIZATION and E-R Model**

**By**

**………………………………………**

**With Matric No: ……………….**

**Submitted to the Department of Computer Science, Faculty of Science, Adekunle Ajasin University, Akungba-Akoko, Ondo State, Nigeria**

**During 2nd Semester of 2015/2016 Academic Session**

**LAB TECHNOLOGIST-IN-CHARGE: ………….I have mentioned the name before now…..**

**Acceptance Statement: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sign/Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**LECTURER-IN-CHARGE: ……..U should know the full name……..**

**Acceptance Statement: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sign/Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Approval Statement: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sign/Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Assessment Score: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sign/Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Question 1:**

State the questions…..

**Solutions**

1. According to 1st normalization rule, the given table then looks thus...
2. For answers to this part, please see the attached pages…..

***(This is just a prototype page for responding to the questions, write/type in MS-Word and append when necessary e.g. Visio, Access etc. and reference/refer to such appendix)***