

Faculty of Engineering and Technology

University of Sindh, Jamshoro

Course Name: Database Systems

Class: BS IT Part II

Instructor: Kamran Dahri

Assignment: Develop ER Model (5 Marks)

Submission Deadline: 22nd December 2022

Question 1: Draw ER Model of Learning Management System – Requirements are given below

“There will be categories of technologies, tools and APIs for categories we would like to store category id, category name and category description. In each category, there will be tutorials with tutorial id, tutorial name, tutorial description, tutorial type (Video and Text), tutorial link and tutorial level (basic, medium and advance).

Users can also register with system and for each user userid, first name, middle name, last name, password, one or more email addresses and user type will be stored into system. Users will also be able to post comment with comment id and one or more comments on any tutorial. Users can also upload video tutorials for any category. There will admin who can delete any user, tutorial, category or comment. For admin there will admin id, username, password, email address and one or many phone numbers. “

Question 2: Draw ER Model of Hospital Management System – Requirements are given below

“For the City hospital a system being develop in which management wants to store doctors information like doc_id, first name, last name, more than one qualifications, address consisting of house no, street, city , more than one phone numbers will be stored and more than one specializations will be stored.

For the patients, we would like to store patient_id, patient full name, complete address, more than one phone numbers and previously diagnosed diseases

More than one doctors can treat more than one patients. Each patient will be admitted to a hospital and will be assigned a room in hospital. For the room, room charges per day, room number, room type will be stored.

There will be hospital staff like nurses, ward boys, peons etc working in hospital there information will be stored like staff no, staff full name, more than one phone number, duty timings, salary, designation, full address

There are multiple branches of hospitals and each branch will have separate staff. Patients can be admitted to any branch and doctors can visit multiple branches.”

Submission Guidelines:

1. You need to submit ER Model Diagram in PDF.
2. You can draw using MS Visio or any other online tool.
3. Upload pdf or word file on LMS in week 15 before or till the deadline.

Note:

1. Plagiarism will be check for all submitted assignments so if any duplication found will get ZERO marks.
2. 20% marks of total marks per day will be deducted on late submission. Maximum two days late submission will be accepted.
3. If duplicate assignment found or group members could not explained the assignment during viva In that case ZERO marks will be given.

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Assignment: Database Normalization (5 Marks)

Submission Deadline: 22nd December 2022

Normalize the following sales database of a company

Supervision_no	Supervisor_name	Sale_area	Customer_no	Customer_name	Warehouse_no	Warehouse_location	Sale_amount
3462	Waters	West	18765	Delta	4	Fargo	12299
			18830	Systems	3	Bismisk	14299
			19242	A. Levon Ranier	3	Bismik	12999
3593	Dyne	East	18841	R.W Flood	2	Superior	11560
			18899	Sweard	2	Superior	2590
				System Stobla	1	Pymoth	8800

Please make 1st and 2nd Normal forms of the given above database.

Submit your assignment in PDF. Combine both assignments in single word file. Make pdf and upload in week 15.