Question bank for MSE

	2M
1)	Summarize user of database
2)	Draw diagram for level of abstraction
3)	Summarize Data integrity with example
4)	Define role of Transaction manager
5)	Recall physical and logical data independence
6)	Define data redundancy and inconsistency
7)	What is schema
8)	Summarize Data isolation with example
9)	Define role of Concurrency control manager
10)	Recall logical data independence
11)	Summarize user of database
12)	Summarize Data integrity with example
13)	What are the responsibilities of DBA
14)	Define role of storage manager
	10 M
1)	Company organized into DEPARTMENT. Each department has unique name and a particular employee who manages the department. Start date for the manager is recorded. Department may have several locations. · A department controls a number of PROJECT. Projects have a unique name, number and a single location. · Company's EMPLOYEE name, ssno, address, salary, sex and birth date are recorded. An employee is assigned to one department, but may work for several projects (not necessarily controlled by her dept). Number of hours/week an employee works on each project is recorded; The immediate supervisor for the employee. · Employee's DEPENDENT are tracked for health insurance purposes (dependent name, birthdate, relationship to employee).
2)	Consider a university database for the scheduling of classrooms for -final exams. This database could be modeled as the single entity set exam, with attributes course-name, section number, room-number, and time. Alternatively,

			one or more additional entity sets could be defined, along with relationship sets
			to replace some of the attributes of the exam entity set, as
			· course with attributes name, department, and c-number
			· section with attributes s-number and enrollment, and dependent as a weak
			entity set on course
			· room with attributes r-number, capacity, and building Show an E-R diagram
			illustrating the use of all three additional entity sets listed.
H	\dagger		Designing an ER (Entity-Relationship) diagram for a Restaurant Management
		3)	System involves identifying the key entities, their attributes, and the
		- /	relationships between them with mapping cardinality constraints.
H	寸		Construct an alternative E-R diagram that uses only a binary relationship
			between students and course-offerings. Make sure that only one relationship
		4)	exists between a particular student and course-offering pair, yet you can
			represent the marks that a student gets in different exams of a course offering.
П	十		Design an E-R diagram for keeping track of the exploits of your favorite sports
	5)	<i>5</i>)	team. You should store the matches played, the scores in each match, the players
		3)	in each match and individual player statistics for each match. Summary statistics
			should be modeled as derived attributes.
	T		Designing an ER (Entity-Relationship) diagram for a Restaurant Management
		6)	System involves identifying the key entities, their attributes, and the
Ш			relationships between them with mapping cardinality constraints.
		7)	Illustrate join operation in detail
			model
			address
			driver-id name license year
			location
			person owns car
			report-number date
		8)	
			driver participated accident
			damage-amount
			Construct appropriate tables for the above ER Diagram ?

