

	uptuonline.com aktuonline.com Construct an E-R diagram for the registrar:s office.			uptuonline.com aktuonline.com (vi) SSNs of students who are registered for both
	Document all assumption that you make about the			'Database Systems' and 'Analysis of Algorithms'.
	mapping constraints.			(vii) SSNs of students who are registered for both
Q3. uptuonline.com	Consider the following relations:	uptuonline.com		'Database Systems' and 'Analysis of Algorithms'.
	Student (ssn. name. address, major)\		=	(viii) The name of students who are registered for both
	Course (code. title)		ptuc	'Database Systems' and 'Analysis of Algorithms'.
	Registered (ssn. code)		uptuonline.com	(ix) List of courses in which all students are registered.
	Use relational algebra to answer the following:		e.con	(x) List of courses in which all 'ECMP' major students
-	(i) List the codes of courses in which at least one	_	_	are registerd.
aktuonline.com	student is registered (registered courses)	aktuonline.com aktuonline.com	4	
	(ii) List the title of registered courses.		aktu	differences between super key, candidate key and primary key.
	(iii) List the codes of courses for which no student is		onli:	. Define functional dependency. What do you mean by
	registered.		ne.c	loss-less decomposition? Explain with suitable example
	(iv) The titles of courses for which no student is registered.		ОШ	how function dependencies can be used to show that
				decompositions are loss-less.
	(v) Names of students and the titles of courses they		6	Define Normal forms. List the definitions of First,
	registered to.			Second and Third normal forms. Explain BCNF with a
	•			suitable example.
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