ICS 1202/ IIT 1202/ ISE 1202: Database Systems Assignment 1

1.	Using a diagram, illustrate and explain the database life cycle, clearly explain the four		
	stages	and what happens at each stage.	[10]
2.	The th	ree-tier architecture is commonly used to describe a database management sys	tem.
	i.	Draw a diagram to illustrate this architecture.	[5]
	ii.	Describe the role of each tier.	[3]
	iii.	Discuss three (3) advantages and three (3) disadvantages of this architecture.	[3]
3.	Distinguish between Multivalued functional dependency and Transitive function		ional
	dependency.		[3]
4.	Securing a database aims to achieve the following objectives:		
	•	Confidentiality	
	•	Integrity	
	•	Availability	
	i.	Briefly describe what is meant by each of the above objectives.	[3]
	ii.	For each objective, describe the appropriate security controls.	[3]