

# [Selecting a primary key](https://assignbuster.com/selecting-a-primary-key/)

[](https://assignbuster.com/)[Finance](https://assignbuster.com/essay-subjects/finance/)

Email   
Then you would create a third entity “ Nametel” that will have a telephone number and Record number as both the primary key and foreign key   
  
5. Provide an example of when you would use a “ recursive” relationship.   
If for instance, we have a table where a company has branches it will be the parent company. Therefore:   
Company id   
Parent id   
Company name   
A1   
Null   
Equity headquarters   
A2   
A1   
Equity Kerugoya branch   
A3   
A1   
Equity Miiria branch   
A4   
A2   
Equity Kerugoya mtaani shop   
A5   
A3   
Equity Miiria main shop   
Given that the headquarters has branches and those branches are parent companies for the main shop   
6. A database table contains the field “ QatarID” as a primary key. Should the data type of this field be text or number? Explain.   
It should be number because texts make bad primary keys as for texts there is a chance it might repeat itself.   
7. What is the purpose of a “ use case” diagram in UML modeling?   
In order to define interactions between a role which is refered to as an actor and a system in order to achieve a specified goal   
8. Identify one (1) cost-saving and one (1) cost increase that might be incurred if CNAQ were to introduce an online student registration system.   
If CNAQ were to introduce an online student registration system the cost-saving reported would be a reduced amount of cash used to buy printing papers and the cost increase incurred would be for creating the system and for maintaining it   
9. A systems analyst would like to estimate the cost of installing wireless access points in a college building. In a similar installation last year, the cost was 200, 000 QAR. It is estimated that in this installation, the cost will be 15% higher. If a contingency reserve of 10% is to be included in the calculation, determine the estimated cost. Show all working.   
Installation cost excess: 200000\*0. 15= 30000   
Total installation cost: 200000+30000= 230000   
Total installation cost + contingency reserve: 1. 1\*230000= 253000   
Total estimated cost: 253000   
10. A project manager has been asked to estimate the cost of upgrading a company’s network servers. She comes up with three scenarios for the cost:   
Most likely: 250 000 QAR   
Pessimistic: 400 000 QAR   
Optimistic: 200 000 QAR   
Determine a three-point estimate for the upgrade. Show all working.   
Take; E as the Estimate, and as the best-case estimate, b as the most likely estimate and c as the worst-case estimate   
Therefore;   
a = 200000 , b = 250000 and c = 400000   
we find,   
E=(a +b +c)/3   
E=(200000+250000+400000)/3   
E=(850000)/3   
E= 283333. 33   
Therefore E = 283333. 33 QAR   
Due date: Thursday 29 November before 5: 00 pm   
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1 ALL assignments to be submitted electronically in MS Word format through the college e-mail system.   
2 Put your name and student number in the HEADER of the word document   
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