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Database design

 Conceptual design is actually analyzing the universe of discourse in order to find out which phenomena are such that should be represented as data in the database

- The result of this analysis
 - identifies the types of objects about which data will be collected
 - identifies the properties of objects that will be presented as data items
 - identifies such dependencies among objects and data items that should be reflected in the database













Database design - Logical Design							
Employee	eNo	eName	bDate	Dept			
	10	M.Smith	1.3.59	3			
	20	D.Lowe	4.5.40	3			
	30	S.Knuth	8.6.66	4			
	40	B.West	2.4.65	4			
	50	O.East	1.2.55	6			
Department	dNo	dName	dLocation				
	3	Sales	Helsinki				
	4	Admin	Espoo				
	6	Production	Espoo				





aa bbb ccc dda aa bbb cca ddb ab bbc ccd ddd ab bbc cca dde ab bbc ccc ddc	A	В	С	D
aa bbb cca ddb ab bbc ccd ddd ab bbc cca dde ab bbc ccc ddc	aaa	bbb	CCC	dda
ab bbc ccd ddd ab bbc cca dde ab bbc ccc ddc	aaa	bbb	cca	ddb
ab bbc cca dde ab bbc ccc ddc	aab	bbc	ccd	ddd
ab bbc ccc ddc	aab	bbc	cca	dde
	aab	bbc	CCC	ddc
ording to this table instance it seems tha	cording	to this table	e instance it	seems that





Job	Salary	Address	EmpNo
clerk	2000	CCC	10
clerk	2000	сса	20
analyst	3000	ccd	30
analyst	3000	cca	40
analyst	3000	CCC	50
OK: EmpNo->Jol OK?: Job->Salary Not always: Salar Not always: Job A	o, EmpNo-> / y,Address-> Address-> E	Salary, EmpN Job mpNo	Vo->Addres





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- 5. If no key of the original relation is included in any of the relations make a new relation for one of the keys.
- 6. If some information is expressed redundantly eliminate this.
- 7. Define names for the schemas. If it's easy to find descriptive names for relations your solution is good.









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