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# Assignment Project Exam Help

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### Worksheet - Normalisation

#### **Transformation to First Normal Form**

1. Identify the primary key for the following non-normalised table

Student	Phone	Exam	Exam	Pass	Grade	Exam1	Exam2
Name	Number		Mark	Mark			
Joe Bloggs	02083382991	French	59 63	50	СВ		
		Japanese		50			
Stuart	0774828382	French	28 55	45	FC		
Pierce		English		50			
Janet Ellis	02299382111	English	66 83	50	ВА		
		Maths		50			
Leo	02084349291	Maths	95 79	50	AA		
Zimmerman		French		50			

- 2. Uports: Siron relate to which exam? What happens when you try to update Stuart Pierce's grade for English (write the SQL to do this)?
- 3. Insert: In the thinks what politically added the subject that there exams rather than two?
- 4. Delete: What happens I we condex we the second exam taken by Janet Ellis and we need to delete the Maths exam and its related marks (write the SQL to do this)?
- 5. To overcome this problem, transform the data into first normal form. Assume that the left hand Grade column refers to the left exam column and so on.

### **Transformation into Second Normal Form**

Student Name	Phone Number	Exam	Exam Mark	Pass Mark	Grade
Joe Bloggs	02083382991	French	59	45	С
Stuart Pierce	0774828382	French	28	45	F
Janet Ellis	02299382111	English	66	50	В
Leo	02084349291	Maths	95	50	Α
Zimmerman					
Joe Bloggs	02083382991	Japanese	63	50	В
Stuart	0774828382	English	55	50	С
Pierce					
Janet Ellis	02299382111	Maths	83	50	Α
Leo	02084349291	French	79	45	Α
Zimmerman					

# Assignment Project Exam Help 1. What is the primary key for this table, which is in first normal form?

- 2. Update: What happens if we need to modify the contact phone number for Joe Bloggs? DVCOUCT.COM
- 3. Insert: How do we add pass mark information for an exam which no students have yet takandd WeChat powcoder
- 4. Delete: What happens if you delete information about the exams taken by Joe Bloggs?
- 5. To overcome these problems, transform the above data from First Normal Form into Second Normal Form.

# **Normalisation - Second Normal Form - Answers**

### **STUDENT**

5.052.11			
Student	Phone No.		
Name			
Joe Bloggs	02083382991		
Stuart Pierce	0774828382		
Janet Ellis	02299382111		
Leo	02084349291		
Zimmerman			

### **EXAM**

Exam Name	Pass Mark
French	45
English	50
Japanese	50
Maths	50

# STUDENT\_EXAM

Student	Exam	Exam	Grade	
Name	Name	Mark		
Joe Bloggs	French	59	С	
Stuart	French	28	F	
Pierce				
Janet Ellis	English 111	dent Dr	Biect F	xam Help
Leo	Matis	gg I I I	WICCL L	rain Heip
Zimmerman				
Joe Bloggs	Japanese	63, ,	В	
Stuart	English (1)	\$55/DOX	wcoder.	com
Pierce	P	P	, 0 0 0 0 0 1	
Janet Ellis	Maths	83	Α	
Leo	Frengh 11	7917	Ant nov	wooder
Zimmerman	Add	WEC	hat pov	ycouel