

# Assignment Project Exam Help

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### What is the Relational Data Model?

# Assignment of the Control of IBM Research in 1970. Assignment of the

A database contains tables (called relations), and each table is made

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 Used as the standard for relational DBMSs (e.g., Oracle, IBM DB2, Microsofts Access, Microsofts SQL Server, MySQL, postgreSQL, etc.).



#### Relation

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INFORMAL TERMS			
Table	Relation		
Column	Attribute		
Data type	Domain		
Row	Tuple		
Table definition	Relation schema		



# Assumpting control of the control of

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• Recall that, Cartesian product  $D_1$  and edu\_assist\_product  $D_2$  and edu\_assist\_product  $D_1$  and edu\_assist\_product  $D_2$  and  $D_3$  and  $D_4$  and  $D_4$  and  $D_4$  are combinations of values from the sets  $D_1$ , ...,  $D_4$ 

**Example**: Let  $D_1$ ={book,pen},  $D_2$ ={1,2} and  $D_3$ ={red}. Then

 $\bullet \ D_1 \times D_2 \times D_3 = \{(book, 1, red), (book, 2, red), (pen, 1, red), (pen, 2, red)\}$ 



The attributes are Students CourseNo, Semester Status and Employee. The attributes are as follows: CT EX and Employee. The dom(CourseNo)=STRING;

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Is the above set a subset of

INT × STRING × STRING × STRING × DATE?

Answer: Yes.



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- Each attribute is associated with a domain.
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•  $R(A_1 : dom(A_1), ..., A_n : dom(A_n)),$ 

where  $A_1 1 \dots A_n$  are attributes of R and d edu\_assist\_previous ex\_

- ENROL(StudentID, CourseNo, Semester, Status, EnrolDate), or
- ENROL(StudentID: INT, CourseNo: STRING, Semester: STRING, Status: STRING, EnrolData: DATE).



# Assignment ela Project Exam Help A tuple in R is a list t of values, i.e., $t \in dom(A_1) \times ... \times dom(A_n)$ .

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 ${\tt INT} \times {\tt STRING}$ 

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• A relation r(R) is a set of tuples  $r(R) \subseteq dom(A_1) \times ... \times dom(A_n)$ .

**Example**: The previous example has the following relation:

•  $r(\mathsf{ENROL}) \subseteq \mathsf{INT} \times \mathsf{STRING} \times \mathsf{STRING} \times \mathsf{STRING} \times \mathsf{DATE}$ .



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- A relational database state of S is a set of reduction for each relation for each relation schrip.
  - all the relations satisfy the integrity constrai



## Assemble a relational data procedure Stuff in that has three relation p

- STUDENT(StudentID, Name, DoB, Email).
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ENROL						
StudentID	CourseNo	Semester	Status	EnrolDate		

That is, StuEnrol={Student, Course, Enrol}.



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DoB

Course

StudentID

Name

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**Email** 

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ENROL					
StudentID	CourseNo	Semester	Status	EnrolDate	
456	COMP2400	2016 S2	active	25/05/2016	
458	COMP1130	2016 S1	active	20/02/2016	
459	COMP2400	2016 S2	active	11/06/2016	