

程序代写代做 CS编程辅导



Schema and State Assignment Project Exam Help

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程序代写代做 CS编程辅导 What is the Relational Data Model?

Introduced by Edgar BM Research in 1970.

"A Relational Model for " Land Land Banks", Communications of the ACM.

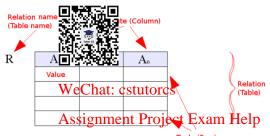
- A database corlections (called relations), and each table is made up of columns and rows.
- Humans have used tables for the number to keep track of data.



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



程序代写代做 CS编程辅导 Relation



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Correspondence of informal and formal terms:

INFORMAL TERMS	FORMAL TERMS
Table	Deletien
https://tutores.c	Om Attribute
Data type	Domain
Row	Tuple
Table definition	Relation schema



- Attributes are used the properties of information. In the relational model, the relational model, the relational model is a second of the relational model.
 - **Example**: To capture the inionination of a person, we can use attributes like Name, Age, Gender, Address and PhoneNumber.
- Domains are the sets of all possible values for attributes.
 - STRING Assignment Project Exam Help
 - **Example:** DATE = $\{01/01/2005, 03/07/1978, ...\}$; • INT = $\{..., -1, 0, 1, 2, ...\}$
- Recall that, Cartesian products $94.7.6 \times D_n$ is the set of all possible combinations of values from the sets $D_1, ..., D_n$.

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

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



The attributes are Status and EnrolDate.

dom(CourseNo)=STRING; dom(Status)=STRING;

dom(EnrolDate)=DATE

The whole table can be considered as a set {(456, COMP2400, 2016 S2, active, 25/05/2016), (458, COMP1130, 2016 S1, active, 20/02/2016), (459, COMP2400, 2016 S2, active, prep) t Exam Help

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StudentID	CourseNo	Semester	Status	EnrolDate
456	060M744098	9.42916 S2	active	25/05/2016
458	COMP1130	2016 S1	active	20/02/2016
459	COMP2400	2016 S2	active	11/06/2016

Is the above set a subset of

 $\mathtt{INT} \times \mathtt{STRING} \times \mathtt{STRING} \times \mathtt{STRING} \times \mathtt{DATE}$?

Answer: Yes.



- and a list of attributes. A relation schema I.
- Each attribute is ass a domain.
- A relation schema can be expressed by cs.

 - $R(A_1, ..., A_n)$, or Assignment Project Exam Help $R(A_1 : dom(A_1), ..., A_n : dom(A_n))$;

where $A_1 \dots A_n$ are attributes by $A_1 = A_1 \cap A_2 \cap A_3 \cap A_4 \cap A_4 \cap A_5 \cap A_5$

Example: The relation schema is

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



- Let R(A₁, ..., A_n) be
- A tuple in R is a list A ti.e., $t \in dom(A_1) \times ... \times dom(A_n)$.

Example: The previous example has the following tuples:

- (456, COMP2400, 2016 S2, active, 25/05/2016)∈
- (458, COMP1130, 2016 St. Live 20102/2016)
- (459, COMP2400, 2016 52, across 41706/2016) \in
- - $QQ\colon 749389476^{\times} \times \text{STRING} \times \text{STRING} \times \text{STRING} \times \text{DATE}.$
- 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:

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





- A relational database schema S is
 - a set of relation workernas: \$\styte_{\text{to},\text{res.}}, R_m\}, and
 - a set of integrity Constraints Project Exam Help
- A relational database state of the sea set of elations such that
 - there is just on (C) at (D) 40 (C) 40 (C) 40 (C) 40 (C) 40 (C) 41 (C) 41 (C) 41 (C) 41 (C) 41 (C) 41 (C) 42 (C) 41 (C) 41 (C) 42 (C) 42 (C) 42 (C) 42 (C) 42 (C) 42 (C) 43 (C) 42 (C) 43 (C) 44 (C) 45 (C) 45 (C) 45 (C) 46 (C) 47 (C) 47 (C) 47 (C) 48 (C) 48
 - all the relations satisfy the integrity constraints *IC*.

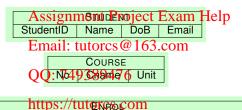
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- Consider a relationa chema StuEnrol that has three relation schemas:
 - STUDENT(Stude, DoB, Email).
 - Course(No, Cname, Unit);

StudentID

• ENROL(Student Status, EnrolDate);



Semester

Status

EnrolDate

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

CourseNo



Relational Database

STUDENT			
Student		⊢ DoB	Email
456	Tom	25/01/1988	tom@gmail.com
458 W	e (P##st	23/95/1993-0	c peter@gmail.com
459	Fran	11/09/1987	frankk@gmail.com

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Course			
No Empoils tytografie 162 com Unit			
COMP1130	Introduction to Advanced Computing I	6	
COMP2400	Relational Databases	6	

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1-44 ENROL				
StudentID	https://khut	Oscineste 01	∏ 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