

MONASH INFORMATION 程序代写例做0039编程辅导

Normalisation Assign

Project Exam Help

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#### Data Normali 程行的 F代做 CS编程辅导

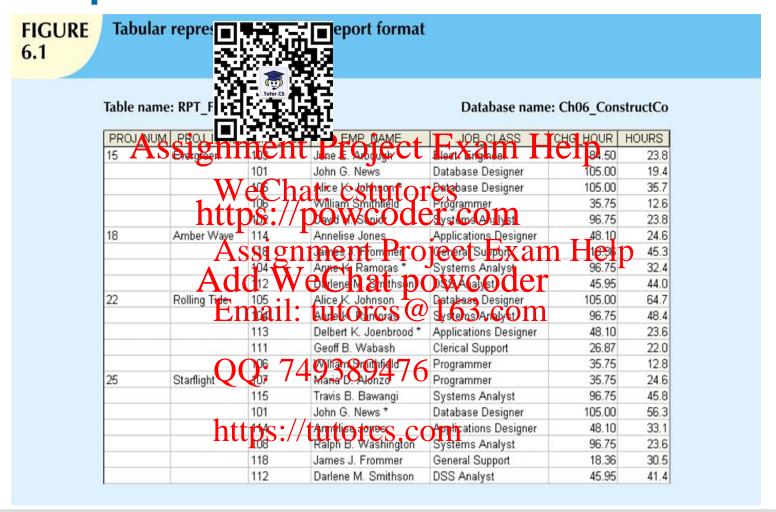
Relations should the line lised in order to avoid anomalies which may occur which erting, updating and deleting data - operates at the line live live.

Normalisation 1818 1998 Ematted Setries of steps for progressively refining the total and the setries of steps for progressively refining the total and the setries of steps for progressively refining the total and the setries of steps for progressively refining the total and the setries of steps for progressively refining the setries of steps for the setries of setries o

- A formal approach to analysing relations based on their primary key (or candidate keys) and functional dependencies.
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- Used:
  - as a design technique bottom up design", and
  - as a way of validatingttable structures produced via "top down design" (ER modelling)



# Sample Data 序代写代做 CS编程辅导





## Problems with 多為有作的 序编程 6.1

- PROJ\_NUM intended the ry key, but it contains nulls
- JOB\_CLASS invites en egg. Elec. Eng. vs Elect. Engineer vs E.E.
- Table has **redundant** chil
  - Details of a charge repeated for every occurrence of job class
  - Every time an emovementassigned to a project emp name repeated
- -Relations that contain het project Exam Help several update anomalies signment Project Exam Help
  - Types of update and om the contract of update and upda
    - Insert Anormalyail: tutorcs@163.com
      - -Insert a new employee only if they are assigned to a project
    - Delete Anomaly 749389476
      - -Delete the last employee assigned to a project?
      - -Deletethe last employee of a particular job class?
    - Modification (or update) Anomaly
      - -Update a job class hourly rate need to update multiple rows



#### The Normalisaffoth写作也公务经过的自己

- Creating valid relation meets the properties of the relation meets the
  - Entity integrity
  - Referential integrity Referential integrity
  - No many-to-many felationship diores
     Interest power of the control of t
  - Each cell contains a isingle value (is atomic) Help
- In practical terms Add WeChat powcoder
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    Each table represents a single subject
  - No data item wil uni μeges arily stored in more than one table.
  - The relationship between tables can be established (pair of PK and FK is identified).
  - Each table is void of insert, update and delete anomalies.



## Representing a form as a relation

#### 程序USTOSEKTO的EBS编程辅导

Order Number: Order Date: 12/3/2018

Customer Number: **Customer Name:** 

Centre Customer Address:

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PART NUMBER	DESCRIPTION: CSTUTOTCS DESCRIPTION: COMPANY CO	LINE PRICE
M128	Bookaseignment Project Exam	Help
B381	TACALON WeChat powcoder	600
R210	Round and: tutores @ 163.com	1500

ORDER (orderno, orderdate gustinumb custname, custaddress (partno, partdesc, qtyordered, lineprice))

Note this is **not** a relation (partno, partdesc, qtyordered, lineprice) - is a multivalued set of attributes – called a repeating group in normalisation terminology



## Functional Dependence Not The Management of the Pendence The Pendence



- An attribute B is FUNCTION PROPERT on another attribute A, if a value of A determines a single value of B at any one-time. An attribute B is FWNCTICE!

  - A → B WeChat: cstutorcs EMP# → EMP NMps://powcoder.com
  - CUSTNUMB → CAUSSINGAMEENT Project Exam Help
  - ORDER-NUMBERdel ORDER DE WCOder
    - ORDER-NUMBERI: independent barieblen also know as the **DETERMINANT**
    - ORDER-DATE :dependent Affable
- TOTAL DEPENDENCY
  - attribute A determines A determines A
    - EMPLOYEE-NUMBER → TAX-FILE-NUMBER
    - TAX-FILE-NUMBER → EMPLOYEE-NUMBER



## Functional Dependence The Parties of The Parties o

- For a **composite** PRIM/ **描旦** is possible to have FULL or PARTIAL dependency.
- **FULL DEPENDENCY** 
  - occurs when an a vays dependent of all attributes in the composite PK
  - ORDER-NUMBER
- Lack of full dependency for intelligible attribute rest Examiliate PENDENCY

   ORDER-NUMBER PART-NUMBER 1
  - → QTY-ORDERED, PART-DESCRIPTION
  - here although qty-ordered is fully dependent on order-number and part-number, only part-number is required to determine part-description
  - part-description is said to be partially dependent on order-number and part-number



## 

- TRANSITIVE DEPEN TRANSITIV

  - and Y is Act si gandicate Repjectaltxof and date key)
  - ORDER-NUMB W→ Chatomer Number Number
- Dependencies are depicted with the help of a Dependency Diagram.
- Normalisation converted relation into pelations of progressively smaller number of attributes and tubles with an optimizable of decomposition is reached little or no data redundancy exists.
- The output from normalisation is a set of relations that meet all conditions set in the relational tratogles principles.



PROJECT - RI	EPRESENTATIO	N 1					
PROJ_NUM	PROJ_NAME	EMP_NUM	EMP_NAME	JOB_CLASS	CHG_HOUR	HOURS	
15	Evergreen	103	June E. Arbough	Elect. Engineer	84.50	23.80	
		101	John G. News	Database Designer	105.00	19.40	
		105	Alice K. Johnson *	Database Designer	105.00	35.70	
		106	William Smithfield	Programmer	35.75	12.60	
		102	David H. Senio	Systems Apelyst	r C30.74	フ24回 1724重	辅导
18 A	Amber Wave	114	Annelise Jones	Applications Designer	<b>L B</b> 101	24.50	拥丁
		118	James J. Frommer	General Support	18.36	45.30	,
		104	Anne K. Ramoras *	Systems Analyst	96.75	32.40	
		112	Darlene M. Smithaga	DOC Analisat	45.95	44.00	
22	Rolling Tide	105	Alice K. Johns	esigner	105.00	64.70	
		104	Anne K. Ramo	alyst	96.75	48.40	
		113	Delbert K. Joe	alyst Designer	48.10	23.60	
		111	Geoff B. Waba	oort	26.87	22.00	
		106	william Smith	utor CS	35.75	12.80	
25	Starflight	107	Maria D. Alonz	* T. N. S	35.75	24.60	
		115	Travis B. Baw	alyst	96.75	45.80	
		101	John G. News	esigner	105.00	56.30	
		114	Angelige Jones	DANDIGATIONS CLESIONER (	C+ 48.10	23846	
		108	Angelise Jones 111	Systems Analyst	D6/75	237	Hel
		118	James J. Frommer	General Support	18.36	30.50	_

Darlene M. Smithson

25 25

118

112

Starflight

Starflight

EMPLOYEE PROJECT ASSIGNMENT HEPRESENTATION 2 TUDS PRODUNE OF OUR CI. MONAME CHG HOUR HOURS JOB CLASS Evergreen 15 103 June E. Arbough Elect. Engineer 23.80 84.50 John & Never Alice R. Johnson Da at age Designer 105.00 19.40 Database Designer 15 35.70 105.00 Programmer 12.60 35.75 Evergreen Systems Analyst 96.75 23.80 Manber Wave okc Annelise Jones James J. Frommer Applications Designer 48.10 24.60 18 General Support 45.30 18.36 18 Amber Wave 32.40 104 Anne K. Ramoras \* Systems Analyst 96.75 18 112 44.00 Amber Wave Darlene M. Smithson **DSS Analyst** 45.95 Rølling Tide 005 Alice K. Johnson Database Designer 105.00 64.70 Rolling Tide 004 Anne K. Ramoras Systems Analyst 96.75 48.40 22 Rolling Tide 113 Delbert K. Joenbrood \* Applications Designer 48.10 23.60 22 111 Clerical Support 26.87 22.00 Rolling Tide Geoff B. Wabash 106 Rolling Tide William Smithfield 35.75 12.80 Programmer OFC 115 Starflight 24.60 Mafia D. Alonzo Programmer 35.75 25 Starflight Travis B. Bawangi 45.80 Systems Analyst 96.75 25 Starflight 101 John G. News \* Database Designer 105.00 56.30 25 Starflight 114 Annelise Jones Applications Designer 48.10 33.10 25 108 Systems Analyst 23.60 Starflight Ralph B. Washington 96.75

James J. Frommer

Darlene M. Smithson

General Support

**DSS Analyst** 

41.40



112

30.50

41.40

18.36

45.95

## Unormalised 程序代写(化例下)编程辅导

- Identify a "subje 是题面中eeds to be modelled
  - For example interest:
    - PROJECT (we will call this representation 1)

      We Chat: cstutores
    - EMPLONEDS: PROVEOTERASSIGNMENT (we will abbreviate this masks blown length of will call this representation 2 Chat powcoder (mail: nitores@163.com
- Choose one subject of interest as a starting point and identify a primary Rep:fort this stubject of interest.
  - For example for ps. Pole of the project \_number (or we will abbreviate it as proj\_num).



# First Normal 程序所写代做 CS编程辅导

- relation)
- - BST NORMALE FORM (1NF) IF:
    - · a unique primary key has been identified for each tuple/routtps://powcoder.com
    - it is a valdssignment Project Exam Help
      - Entitynination (crosplant of PK is null)
      - Single value for each cell.
    - No repeating group.
       all attributes are functionally dependent on all or part of the primary key



#### UNF to 1NF tra解析所有代的形容编程辅导

- Identify the repulsion proup(s), if any, in the unnormalised repulsion
  - For represented project will have more than one employeecassigned to it, hence there https://powcoder.com is a repeating group.
  - We have oned to relative repair the remail: the result of the remail to remail the re

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### UNF to 1NF 程序代写代做 CS编程辅导

- Move from UNF是要证明 by:
  - 1. identify a unit by lentifier for the repeating group Assignment Project Exam Help
  - 2. remove the repeting of the main relation of the
  - 3. The PK of the New relations from the removal of repeating group will normally have a composite PK made up of the PK of the main relation and the unique identifier chosen in 1. above, but this must be checked.



# 1NF to 2NF程序代写代做 CS编程辅导

- A RELATION IS IF -
  - all non key minerate some function all non key minerate some the entire princary key (simplified definition)
    - https://powcoder.com

      i.e. no partial dependencies exist Help
  - all non key attributes at Priveto all y dependent on Email: tutorcs@163.com
    any candidate key (general definition)
  - for this unit we will only use the simplified definition ie. look for partial/idependencies based on the primary key



#### 2NF to 3NF 程序代写代做 CS编程辅导

- A RELATION I삃
  - all transitive
     dencies have been removed
    - check for more in the content on

another now deviattribute
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Move from 2NF to 3NF bypremoving transitive dependencies Add WeChat powcoder Email: tutorcs@163.com

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- List all attributes in the form, maintain consistency with previously in the form, maintain consistency
  - emp\_na, emp\_inition project\_Exame, remp\_dob, emp\_street\_no, emp\_street, emp\_town, emp\_pcode, phone\_typenter, emp\_town, emp\_pcode, cstutores phone\_typenter, emp\_town, emp\_pcode, phone\_typenter, emp\_town, emp\_pcode, phone\_typenter, emp\_town, emp\_pcode, phone\_typenter, emp\_town, emp\_pcode, emp\_town, emp\_pcode, phone\_typenter, emp\_town, emp\_pcode, phone\_typenter, emp\_town, emp\_pcode, emp\_town, emp\_pcode, phone\_typenter, emp\_town, emp\_pcode, emp\_town, emp\_to
- Determine if any Entribute 95 multivalued for a given entity instance
  - QQ: 749389476

     phone\_type, phone\_no, degree\_name, degree\_institution,/degreecyear, fmemb\_no, fmemb\_name, fmemb\_dob, skill\_name



## Summary 程序代写代做 CS编程辅导

- Things to rememb
  - Primary Key in in moving from UNF to 1NF is important, it very mine the starting point (choose your subject of interest).
  - Functional dependence we Chat: éstutores estutores
  - Process of removing attributes in Frelations phased on the concept of the first power of the concept of the c
    - UNF to 1NF define PK & remove repeating group.
    - 1NF to 2NF remove partial dependency.
    - 2NF to 3Nt Fremtovertsansitive dependency.

