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University

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INFORMATION
TECHNOLOGY

程序代写代做CS编程辅导



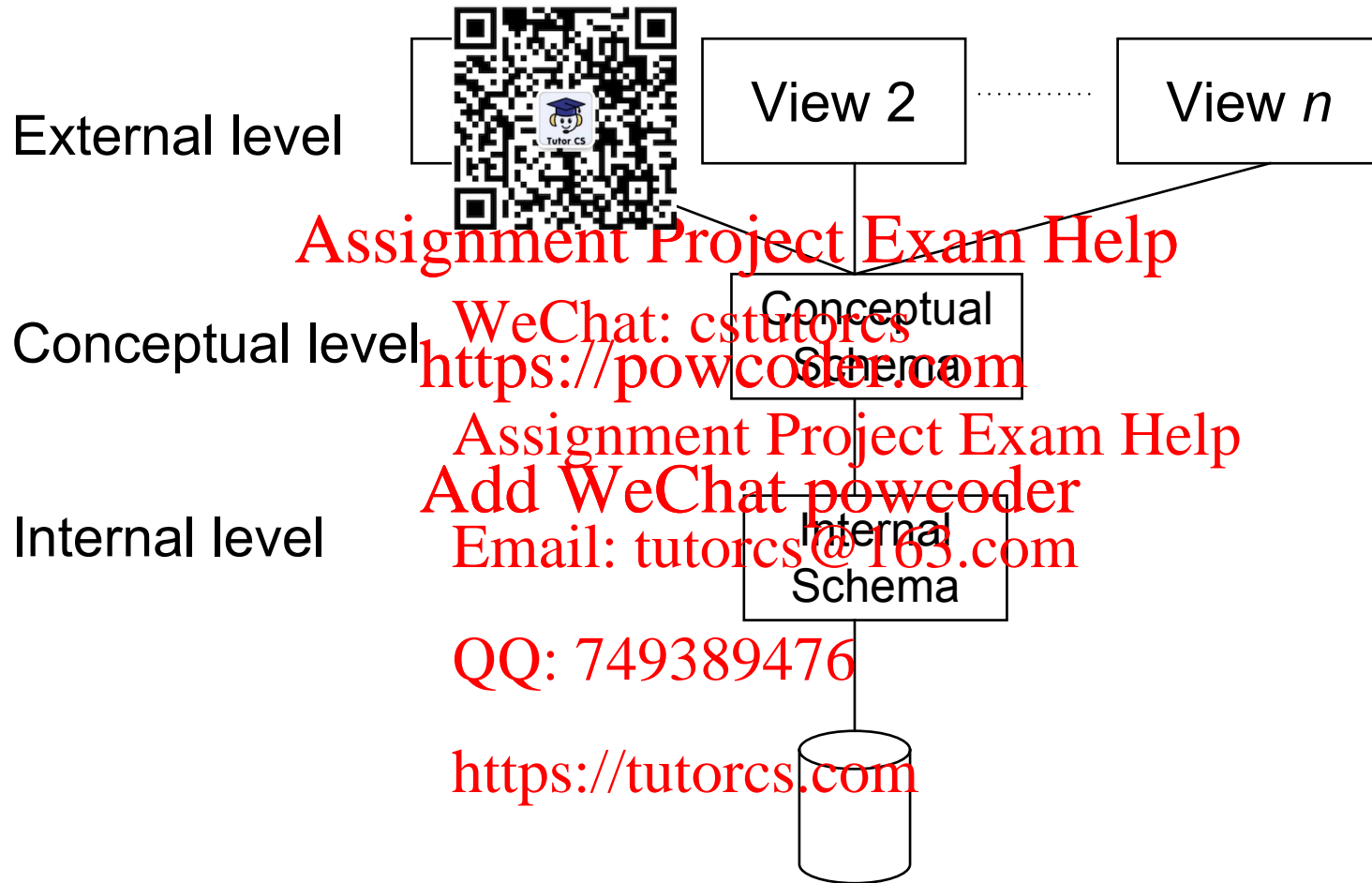
Database Design 1 Assignment Project Exam Help Modelling

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ANSI/SPARC architecture



The Database Design Life Cycle



Requirements
Definition

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Conceptual
Design

Logical
Design

<https://tutorcs.com>
Physical
Design

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Requirements Definition

- Identify and analyze user views.
- A 'user view' model report to be produced or a particular type of interaction that should be supported.
- Corresponds to the external level of the ANSI/SPARC architecture.
- Output is a statement of specifications which describes the user views' particular requirements and constraints.



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Student view 程序代写代做 CS编程辅导

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- Enrolment / Re-Enrolment
- Fees / Scholarships
- Student Services
- Course Progression
- Enrolment Access Dates
- WES Guides
- WES Survey
- Monash Links**
- my.monash
- Allocate+ (Class Allocation)
- MUTTS (Class Timetable)
- Moodle

Web Enrolment System

✓ Check Faculty Course Adviser

✓ You are required to study in each Semester. Need help? Click [here](#)

after making any changes. Your Transaction Number.

Unit Enrolment for

Are you enrolled in this course? Enrolment in your course is not confirmed. Click on Enrolment in the Action column to confirm your enrolment in each unit.

Course Location: PARKVILLE(FORCED - What does this mean?)

[Add Units Click here](#)

Unit code	Action	Unit name	Campus	Semester	Type	Credits
PAC1111	Enrol	Introduction to physiology UNCONFIRMED	PAR	Semester 1 (2014)	DAY	--
PAC1121	Enrol	Biorganic and medicinal chemistry I UNCONFIRMED	PAR	Semester 1 (2014)	DAY	--
PAC1211	Enrol	Physicochemical aspects of pharmacy UNCONFIRMED	PAR	Semester 1 (2014)	DAY	--
PAC1311	Enrol	Pharmacy, health and society I UNCONFIRMED	PAR	Semester 1 (2014)	DAY	--
PAC1132	Enrol	System physiology UNCONFIRMED	PAR	Semester 2 (2014)	DAY	--
PAC1142	Enrol	Biorganic and medicinal chemistry II UNCONFIRMED	PAR	Semester 2 (2014)	DAY	--
PAC1222	Enrol	Drug delivery I UNCONFIRMED	PAR	Semester 2 (2014)	DAY	--
PAC1322	Enrol	Pharmacy, health and society II UNCONFIRMED	PAR	Semester 2 (2014)	DAY	--
Total credits:						0

If you do not get a Transaction Number after you submit, your enrolment is not complete.

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Staff and Student View

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Unit guides

Unit Guide Manager | Find a unit guide |



 MONASH University

FIT2094: Databases



Semester 2 (S2-01) 2018

Contents	^
Unit handbook information	
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Prohibitions	
Co-requisites	
Chief Examiner	
Campus Lecturer(s)	

FIT2094
Databases
Semester 2, 2018

The information contained in this unit guide is correct at time of publication. The University has the right to change any of the elements contained in this document at any time.

Last updated: 13 Jul 2018
Status: Approved

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Admin View

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Allocate⁺



Subject Administrator

FIT2094_CL_S2_ON-CAMPUS, DATABASES

Activity Groups:

Laboratory (Laboratory)
ALLOCATION ADJUSTMENT)
Enrolments: 324
Preferences: 174
Allocations: 321
Seats Provided: 326

Lecture (Lecture)
ALLOCATION ADJUSTMENT)
Enrolments: 324
Preferences: 0
Allocations: 317
Seats Provided: 1318

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FIT2094_CL_S2_ON-CAMPUS:DATABASES
(Laboratory)

Allocate

Add Activity

Show Message

Allocated List

Unallocated List

Bulk E

Functions						Activity Code	Campus	Day	Start Time	Location	Staff	D
Delete	Edit	List	Constraint	Context	Email	01	CL	Mon	18:00	CL_14Rnf/G11A	-	
Delete	Edit	List	Constraint	Context	Email	02	CL	Thu	18:00	CL_22All/103	-	
Delete	Edit	List	Constraint	Context	Email	03	CL	Fri	18:00	CL_14Rnf/146	-	
Delete	Edit	List	Constraint	Context	Email	04	CL	Tue	18:00	CL_23Col/G45	-	
Delete	Edit	List	Constraint	Context	Email	05	CL	Wed	18:00	CL_14Rnf/143	-	

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ER Modeling

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- ER (Entity-Relationship) model developed by Peter Chen in 1976 for database design.
- May be used for conceptual (ERD)/logical design (ERD like).
- ER diagrams give a visual indication of the design.
- Basic components:
 - Entity
 - Attribute
 - Relationship



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Conceptual Design

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- Develop the er data model.
- Corresponds to the conceptual level of the ANSI/SPARC architecture.
- Independent of all physical implementation considerations.
- Various design methodologies may be employed, including the ER (Entity-Relationship) approach.

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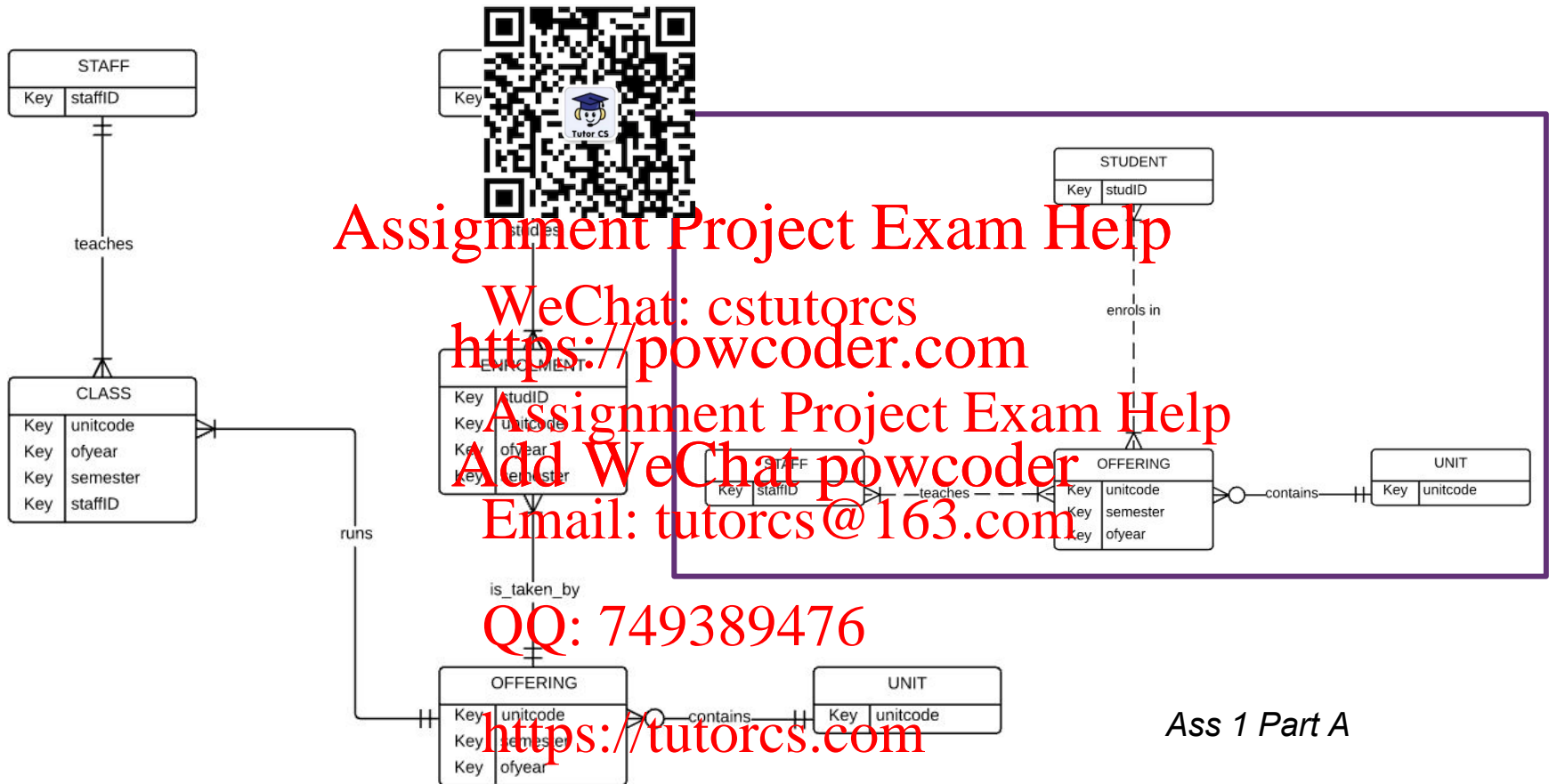
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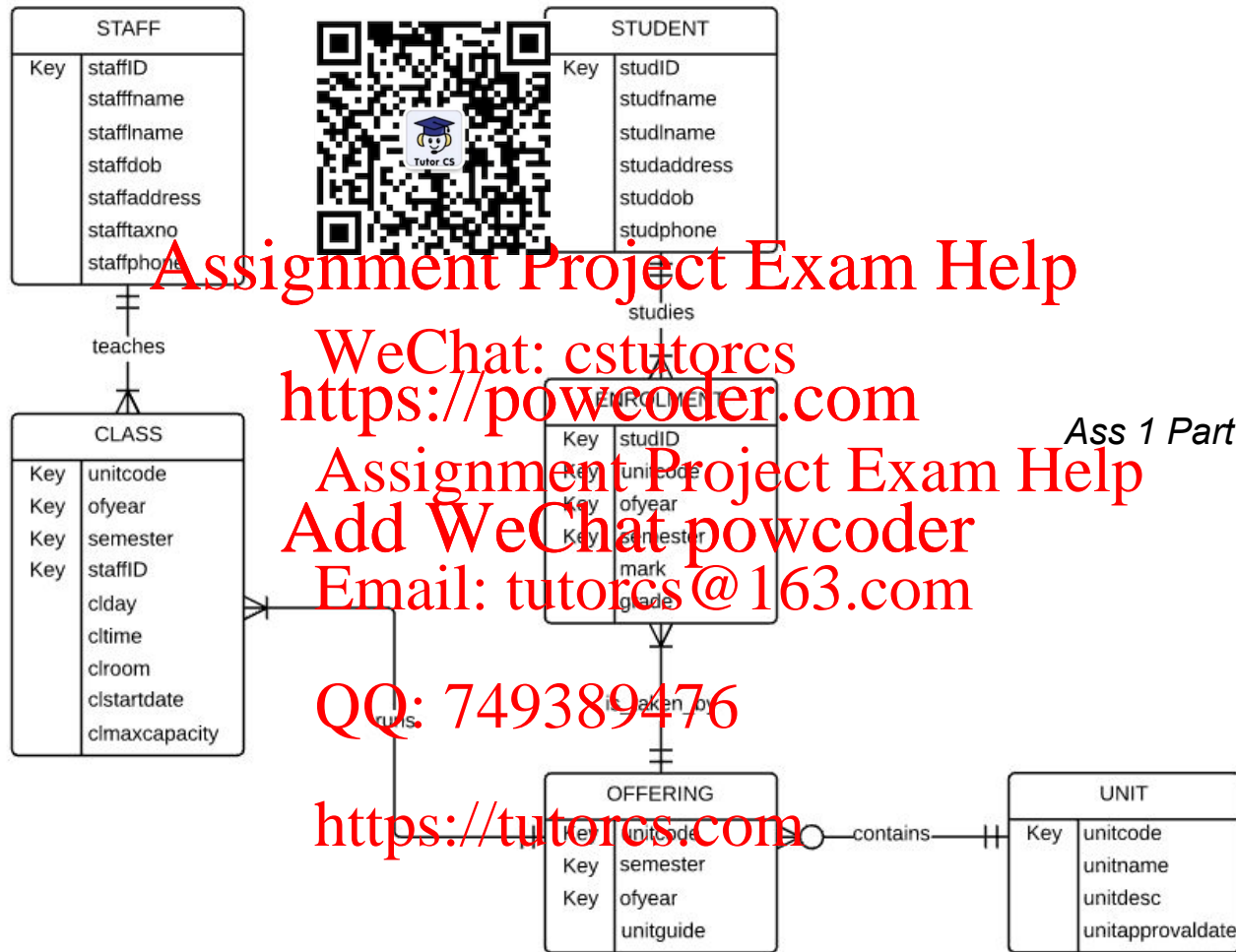
Conceptual Level (ER Model) Keys only

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Ass 1 Part A

Conceptual Level (ER Model) – All Attributes



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Ass 1 Part B

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Logical Design

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- Develop a data model which targets a particular database model (relational, hierarchical, network, object-oriented).
- Independent of any implementation details which are specific to any particular DBMS package.
- Normalisation technique (see week 5) is used to test the correctness of the logical model.
- May also be considered to correspond to the conceptual level of the ANSI/SPARC architecture.

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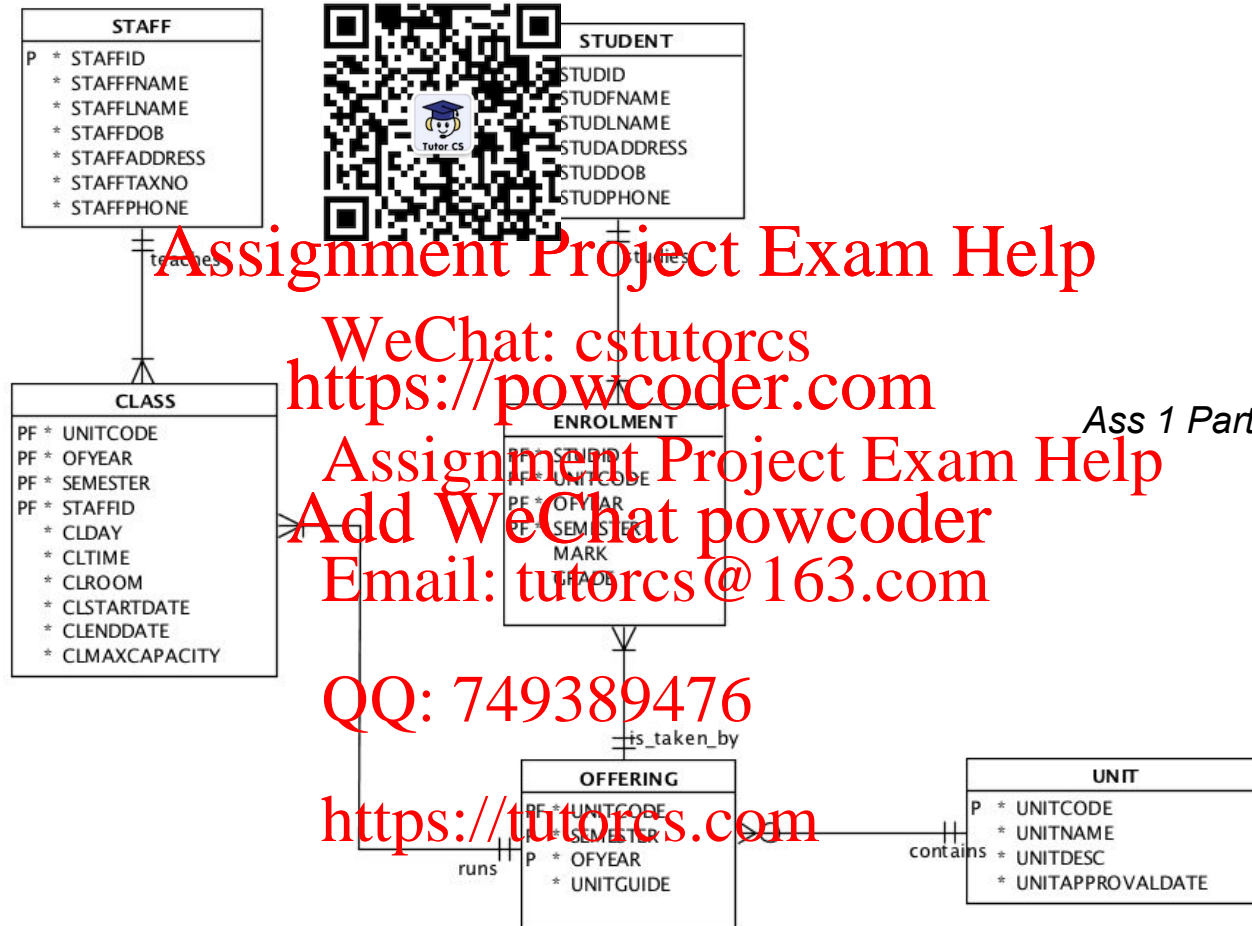
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Logical Level (Logical Model)



Physical Design

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- Develop a strategy for the physical implementation of the logical design.
- Choose appropriate storage structures, indexes, file organisations and access methods which will most efficiently support the user requirements.
- Physical design phase is dependent on the particular DBMS environment in use.
- ANSI/SPARC internal level.
- Shown in SQL Developer Data Modeller as the Relational Model

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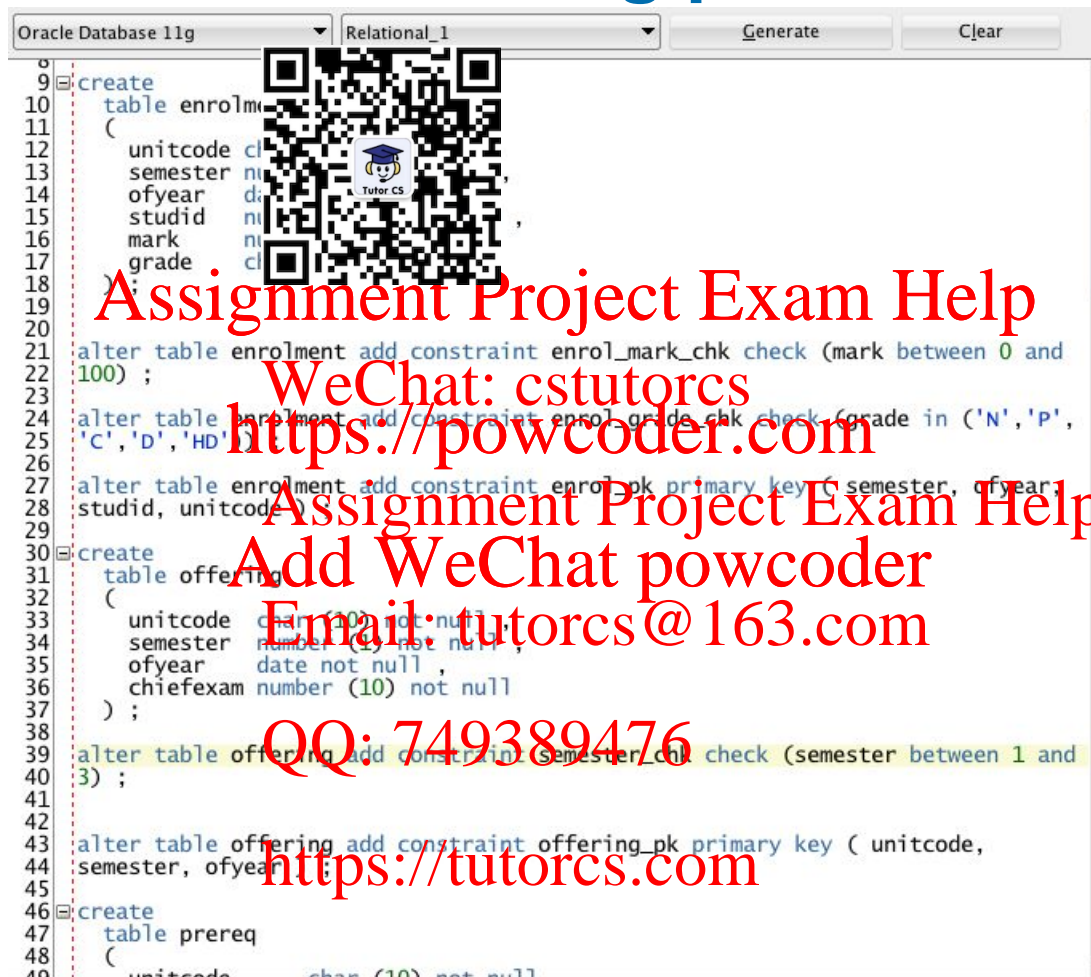
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Physical Level—Starting point

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```
Oracle Database 11g | Relational_1 | Generate | Clear
9 create
10 table enrolm
11 (
12     unitcode cl
13     semester nu
14     ofyear da
15     studid nu
16     mark nu
17     grade cl
18 );
19
20
21 alter table enrolment add constraint enrol_mark_chk check (mark between 0 and
22 100) ;
23
24 alter table enrolment add constraint enrol_grade_chk check (grade in ('N','P',
25 'C','D','HD'));
26
27 alter table enrolment add constraint enrol_pk primary key (semester, ofyear,
28 studid, unitcode);
29
30 create
31 table offering
32 (
33     unitcode char(10) not null
34     semester number(1) not null
35     ofyear date not null
36     chiefexam number(10) not null
37 );
38
39 alter table offering add constraint semester_chk check (semester between 1 and
40 3) ;
41
42
43 alter table offering add constraint offering_pk primary key ( unitcode,
44 semester, ofyear);
45
46 create
47 table prereq
48 (
49     unitcode char(10) not null
```

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ENTITY RELATIONSHIP
DIAGRAM

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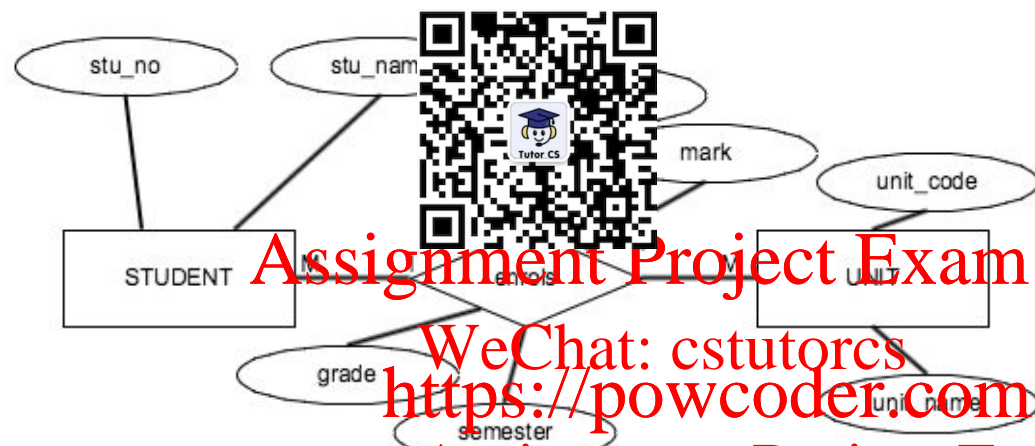
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ERD - Notation

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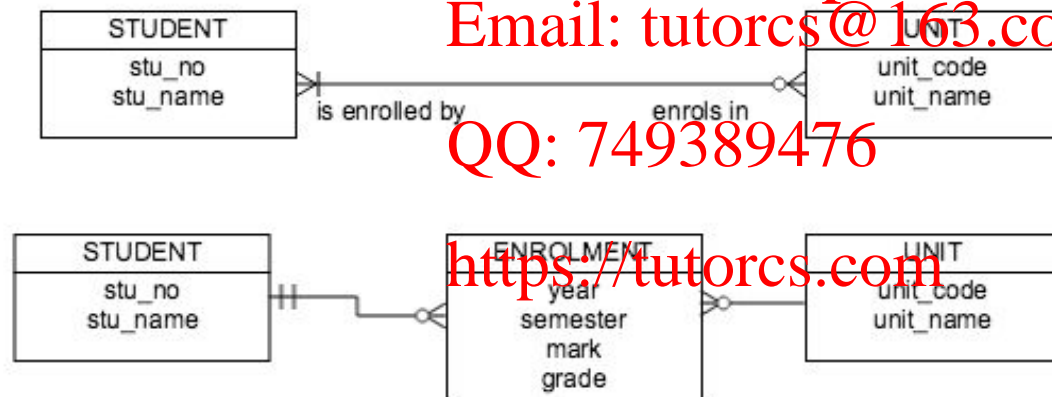


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Information
Engineering/James
Martin/Crows foot

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ERD – Notation cont'd

Chen's Notation

- Semantically rich
- Complex diagram.
- 'Pure' conceptual level.

Information Engineering

- Less semantics.
- Simpler diagram.
- Mix between conceptual and logical levels.



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Entity, Attributes and Relationships

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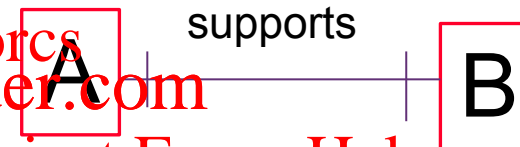
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one to many



one to one



many to many

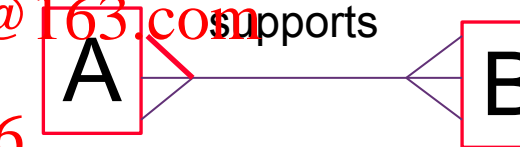


FIGURE 4.7

Connectivity and Cardinalities in an ERD



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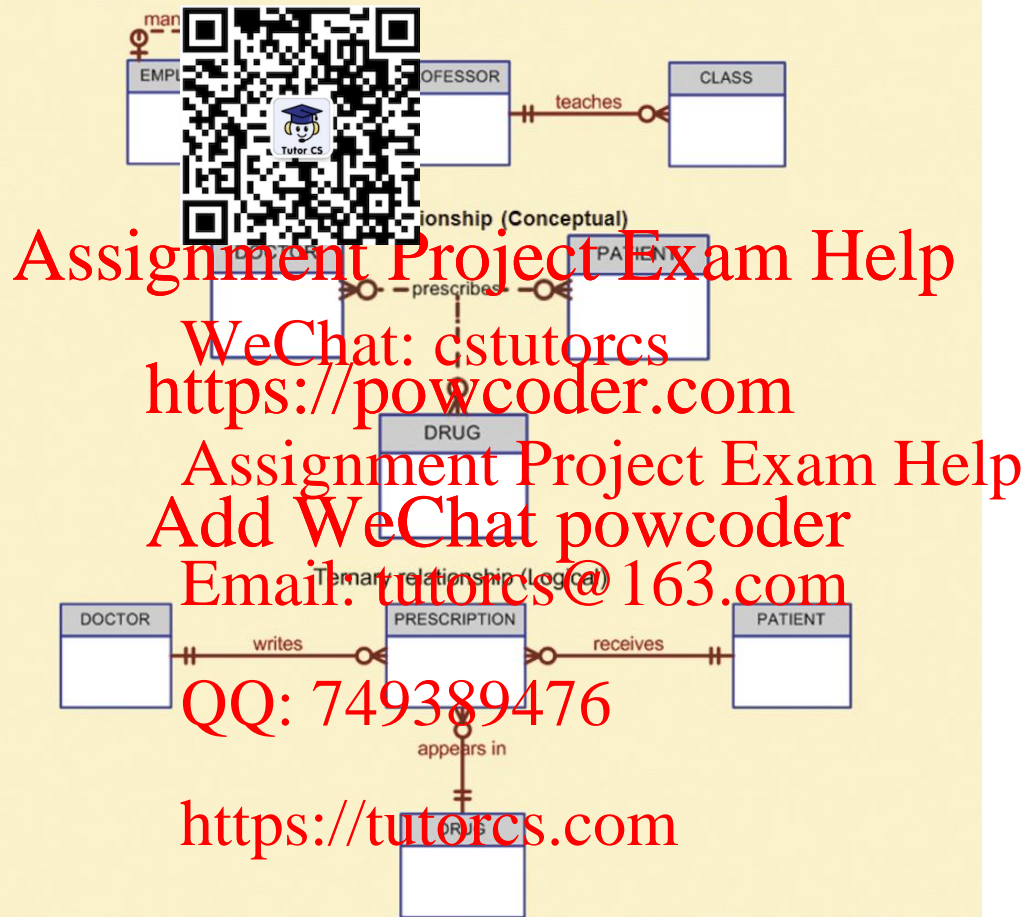
FIGURE 4.15

Three types of relationship degree

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Unary relationship

Binary relationship



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SOURCE: Course Technology/Cengage Learning

Weak vs Strong Entity

- Strong entity
 - Has a key which is defined without reference to other entities.
 - For example EMPLOYEE entity.
- Weak entity
 - Has a key which requires the existence of one or more other entities.
 - For example FAMILY entity - need to include the key of employee to create a suitable key for family
- Database designer often determines whether an entity can be described as weak based on business rules
 - customer pays monthly account
 - Key: cust_no, date_paid, or
 - Key: payment_no (surrogate? — not at conceptual level)



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Weak vs Strong Entity

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FIGURE 4.10

A weak entity



Entity Model

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Crow's Foot Model

EMPLOYEE	
PK	<u>EMP_NUM</u>
	EMP_LNAME
	EMP_FNAME
	EMP_INITIAL
	EMP_DOB
	EMP_HIREDATE

DEPENDENT	
PK	<u>DEP_NUM</u>
PK,FK1	<u>EMP_NUM</u>
	DEP_FNAME
	DEP_DOB

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Identifying vs Non-Identifying Relationship



Identifying

- Identifier of A is part of B.

Non-identifying

- Identifier of A is NOT part of B.



- Shown with solid line
- Enrolment's PK includes student id, which is an identifier of student.

- Shown with broken line
- Department no (identifier of department) is not part of Employee's identifier.

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Types of Attributes



- Simple
 - Cannot be subdivided
 - Age, sex, marital status
- Composite
 - Can be subdivided into additional attributes
 - Address into street, city, zip
- Single-valued
 - Can have only a single value
 - Person has one social security number
- Multi-valued
 - Can have many values
 - Person may have several college degrees
- Derived
 - Can be derived with algorithm
 - Age can be derived from date of birth

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Multivalued Attribute

- An attribute that has a list of values.

- For example:
 - Car colour may consist of body colour, trim colour, bumper colour.

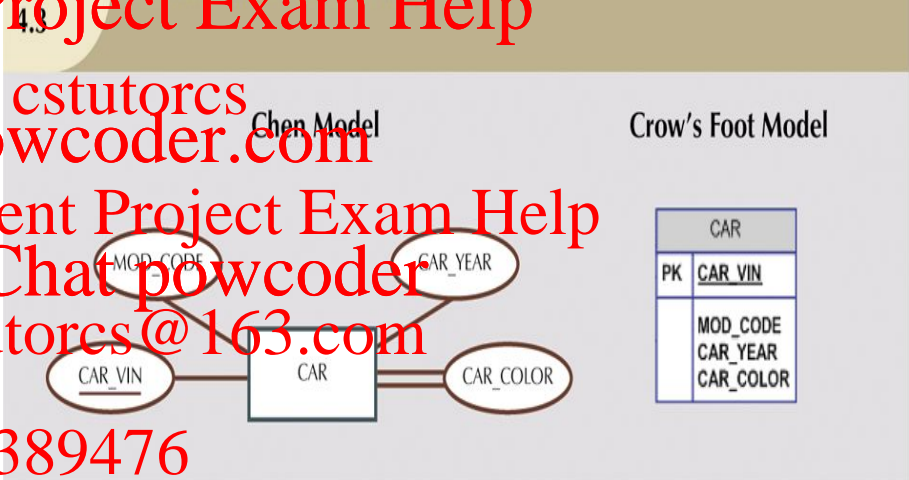
- Crow's foot notation does not support multivalued attributes.

Values are listed as a separate attribute.



FIGURE 4.3

A multivalued attribute in an entity



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Resolving Multivalued Attributes



Model



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Crow's Foot Model



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Associative (or Composite) Entity

