

WeChat estutores

Monash Cabins is a chain of resorts (holiday destinations) located around Australia. At each of these resorts, MC provides cabin-based accommodation for its guests – any given resort consists of several independent cabins. A resort is located in a particular town, MC maintain details of points of interest (POI) in the located that glasts might be used. Facilified with only one town.

For points of interest MC records the street and town in which it is located, the name of the point of interest (eg. Merimbula (quatium)) about the stription of the point of interest, its opening hours (if appropriate), and the type of point of interest (cate, buyer). The opening hours are recorded as the time at which the POI opens and the time at which it closes, only one set of these times are recorded (ie the POI is assumed to open and close at the same time all year). Each POI is only classified as one type of point of interest, for example, a cafe in a national park will be classified as a cafe. A scan of the potential MC data has indicated that some towns contain two POIs of the same name.

Each resort is assigned a unique resort id. MC has several resorts in some towns and only a single resort in others depending on the location's popularity. Each resort has a name (eg. Merimbula Beach Cabins). A resort's street address and town name are recorded. MC also records for each resort the star rating of the resort, which is determined from the average of all guest reviews, whether guests may bring their pet dog/s while staying at the resort and if the resort manager lives at the resort. Each resort has a single manager. MC assigns a manager id to each manager and records the manager's name, postal address (including town and postcode) and the manager's contact phone number. Some managers live on site (ie. at the resort); others live at their own private residence, however, MC does not need to record the manager's residential address, only their postal address. Where a location has several resorts, a manager may manage several different resorts.

Each resort consists of a number of cabins – the cabins are numbered starting from cabin 1 at each resort. MC records how many bedrooms there are in each cabin, the sleeping capacity of the cabin (how many people it cap are partial guests with some details to assist their decision making.

MC guests, those stayi register with MC. The grecorded. A guest making cabin they wish to stay date they wish to stay the children and the number the particular booking,



assigned a unique guest number when they first ddress, country, email and contact phone number are by choosing the resort they wish to stay at and the red to provide the date they wish to book from and the pply MC with the number of adults, the number of le) who will be staying. MC record the total charge for ate and the number of days of the guests stay.

Guests are offered the opportunity to provide a review of the resort - they are not required to do so, but if they do, they provide a comment and a rating from 1 (poor) to 5 (outstanding). These reviews are treated as general reviews of the resort rather than being related to a particular cabin or stay. A guest may complete many reviews of a particular resort during their stay. The review may also be made after the guest has left the resort. The date of the review is recorded (a guest is not permitted to complete two reviews on the same day).

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The rates charged for a cabin depend on the cabin itself (some cabins have special features such as a spa) and the time of the year in which the guest is staying. For example, for seaside resorts, the highest rates are charged peak where period (set Lang) when demand is at its highest. The rate for each cabin is recorded for each of these charge periods may vary between different locations. Where a booking spans several rate periods, the booking is charged at the rate which applies on the first day of the booking.

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When a guest vacates a cabin, MC use contract cleaners to clean the cabin. MC maintain a running sheet, for each resort, to record cleaning activity (a small sample of this is shown below):

# Ander Wite Cabin et a por Microg de l'Anno Minning Sheet

Resort ID: 56

Resort Name: Merrimbula Beach Cabins

Resort Address: 56 The Spike Rd, Merrimbula, 2548

Cabin No	Standard Cabin	Date Cleaned	Contract Cleaner Details				Actual Cabin	Cleaning
	Cleaning Time (mins)		Contractor No	First	Last	Contract Rate	Cleaning Time (mins)	e Charge
12	60	01/07/2018	23	William	Xui	\$20.50	60	\$20.50
13	80	01/07/2018	23	William	Xui	\$20.50	90	\$30.75
15	60	01/07/2018	23	William	Xui	\$20.50	30	\$10.25
12	60	08/07/2018	45	Mary	Green	\$22.00	60	\$22.00
13	80	08/07/2018	45	Mary	Green	\$22.00	85	\$31.17
12	60	15/07/2018	23	William	Xui	\$20.50	55	\$18.79
15	60	15/07/2018	23	William	Xui	\$20.50	55	\$18.79

Document A

A cleaning contractor is assigned a unique contractor number when first taking up work with MC. Contract cleaners may work as casual staff or fixed term staff. Fixed-term staff sign a contract to clean for a set period of three such as three residuals. Casual period to clean, they are available on a weekly basis as work is available or suits them. Casual cleaners are contacted when work is available to clean a particular cabin and may accept or reject the job. Contraction of the cont

MC maintain a record of shown below):

for all cleaners ( a small sample of this record is

Mo ■ I - Cartaing Contractor Rates History

Contractor No: 23

Weehat: cstutorcs

Postal address: PO Box 100

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As	Si Pinnaci Dates Starte ate Pare Date		Contract Forty (1) Bate	Exam.	Help
	12/07/2017	31/12/2017		Casual	50
	05/01/2018	/ 30/03/2018	\$18 50	Fixed	
	1115 1110	//4 <b>3 5 7</b>	94166	Fixe OIII	
					M

### Atdos: Whetchas.pomcoder

First Name: Mary
Last Name: Green

Postal address: 13 Narrow Lane

Merrimbula, 2548

Phone: 0789123456

t Dates	Contract		
End Date	50-900 NO. 10-90 N	Contract Type	
	\$22.00	Casual	
	End Date	End Date Hourly	

**Documents B and C** 

#### **TASKS**

Please ENSURE your name and It are stown on early pages to document is a multipage document, such as for the normalisation, please also make sure you include page numbers on every page.

### Moodle Part A Subm

**L** conceptual model (Entity Relationship Diagram) for Using LucidChall Monash Cabins

- del, include what you see as identifiers (keys) for each For this re **not required**) and all relationships. entity or.
- Surrogate keys must not be added to this model. Participation and connectivity for all relationships must be shown on the diagram.

This initial conceptual model must be submitted to Moodle as Assignment 1 Part A by 5 PM Monday of week 6. If this submission is not made by this date you will not be able to submit Assignment 1 Part B.

No marks are awarded for this submission, your tuter will provide feedback and guidance based on your submitted initial model which should be integrated into your continuing work

#### Moodle Part B Submission:

2. Perform **normalisation to 3NF** or the data depicted in the sample Cleaning Running Sheet (Document A) and the sample Contract History (Documents B and C - note that documents B and C are two samples of the same document).

During normalisation, you must: Powcoder

- **Not** add surrogate keys to the normalisation.
- You should include all attributes (not remove any attribute as derivable)
- Clearly show UNF, 1NF, 2NF and 3NF.
- Clearly identify the Primary Key in all relations.
- Clearly identify the partial and transitive dependencies (if they exist) in all 1NF relations. You may use a dependency diagram or alternative notation (see the normalisation tutorial sample solution for a possible alternative representation).

Your attribute names as used in your normalisation and those on your conceptual/logical models must be consistent i.e. the same name used on each for the same property.

- 3. Using LucidChart, prepare a **FULL conceptual model** (Entity Relationship Diagram) for Monash Cabins (MC).
  - For this FULL conceptual model, include what you see as identifiers (keys) for each entity, all required attributes and all relationships. This full model will be based on your feedback from your Part A submission, the normalisation above and further reading of the case study. It may be necessary to revise/update this model while developing your logical model in part 4 below.
  - Surrogate keys must not be added to this model. Participation and connectivity for all relationships must be shown on the diagram.

- 4. Based on the final full version of your conceptual model, prepare a logical level design for the Monash Cabins database.
  - The logical mode must be may nustre the Oracle at a mode in . The information engineering or Crow's foot notation must be used in drawing the model.
  - All entities depicted must be in 3NF

  - mented in the database.

    generate numeric primary keys and check clauses where appropriate.
  - 🖭 as part of your model.
- 5. Generate the s **base** in Oracle Data Modeler and use the schema to ccount. The *only* edit you are permitted to carry out to create the datat header comment/s containing your details (student the generated s name/id) and drop sequence commands.
  - Capture the output of the schema statements using the spool command.
  - Ensure your script requested and sequence statements at the start of the script script.
  - Name the schema file as mc\_schema.sql.

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### Submission Requirements

# Due: Monday 27th Au程的序代等代做 CS编程辅导

The following files are to be submitted:

A single page pure file mc\_initial\_case pure file mc\_initial\_case pure file mc\_initial\_case pure file must be created via File - Download As - PDF from LucidChar file pure file - Capture.

Due: Wednesday 12t

**‡**k 8) 5PM

The following files are to be submitted

- A single page pdf file containing your final version of your conceptual model. Name the file mc\_conceptual.pvf. This file file stated in File Spownload As PDF from LucidChart, do not use screen capture.
- A pdf document showing your full normalisation of documents A, B and C showing all normal forms (UNIX, SNF) 2NF1 and the file of normalisation. The file of normalisation.
- A single page pdf file containing the final logical Model you created in Oracle Data Modeller.
   Name the file in logical adf. This pdf must be created via File. Data Modeler Print Diagram To restillation within a Conference of the power of the print.
- A zip file containing your Oracle data modeler project (in zipping these files be sure you include the .dmg file and the folder of the party have). Name the file mc\_oraclemodel.zip.
   This model must be able to be species by your marker and contain your full model
  - otherwise your task 4 will not be marked. For this reason, you should carefully check that your model is complete you should take your submission archive, copy it to a new temperature the transfer of the type as the property of the type as the type as
- A schema file (CREATE TABLE statements) generated by Oracle Data Modeller. Name the file mc\_schema.sql
- The output from SQL Developer spool command showing the tables have been created.
   Name the file mc\_schema\_output.txt
- A pdf document containing any assumptions you have made in developing the model or comments your marker should be aware of. Name the file mc\_assumptions.pdf

Note that there are **seven required files**. These files must be zipped into a single zip file named a1-<yourauthcateid1>.zip e.g., a1-xyz123.zip before the assignment due date/time. Submit the a1-xyz123.zip to Moodle before the due date.

Late submission will incur penalties as outlined in the unit guide.

### Marking Rubric

程序代写代做 CS编程辅导

Not Adequate (N) Outstanding (Range D - HD) Adequate (Range P - C) Identify the data Some MC operations are Many of the MC All MC operations are requirements to not supported. operations are not suppo support an Majority of supported. required entities organisations None or few of the operations from the are present required entities supplied case study Majority of are present and expresses required attributes None or few of the these via a and keys have required attributes been captured and keys have database been captured conceptual model. All/most required Surrogate keys have not been Surrogate keys (50)relationships have byet daptiled T stutores have been added All/most required Majority of None or few of the cardinality and required required relationships have been captured X participation. relationships have constraint namen been daptured been captured Majority of None or few of the required required Assi**gnmach tultrais de l'égaic** cardinality and participation participation constraints have constraints have been captured been captured The design III Understand and Few of the design processes have been processes have been processes have been follow a database design correctly followed: correctly followed: correctly followed: All Appet Norman spirio Significant errors methodology.(25) Majority of C Numalisation processes are correct during the Dependency diagrams processes are correct Normalisation have been provided and Dependency processes match normalisation. diagrams have been Dependency diagrams provided and match not provided or have ER diagram mapped to logical model with only major errors normalisation in minor errors/omissions. majority of situations. ER diagram mapped ER diagram mapped to logical model with **SQL** Developer Relational model to logical model with errors/omissions. only small number of SQL Developer correctly generated from the logical model errors/omissions. Relational model not Sequences have been SQL Developer correctly generated created to provide Relational model from the logical model numeric primary keys correctly generated Sequences have not where required from the logical model been created to Sequences have been provide numeric created to provide primary keys where numeric primary keys required where required in the majority of situations

Marking Rubr		弋做 CS编程组	浦导
	Outstanding (Range D - HD)	Adequate (Range P - C)	Not Adequate (N)
Understand and apply the relational model principles into practise. (15)	All relational model principal follow  All the first data integrity requirements (Entity, Referential, Domain) have been correctly identified.	Most relational model principles have been followed:  Majority of entities are in third normal form.  Majority of Primary and Foreign keys are correctly identified.  Majority of data integrity requirements (Entity, Referential, Correctly identified.	Few of the relational model principles have been followed:  None or few of the entities are in third normal form.  None or few of the Primary and Foreign keys are correctly identified.  None or few of the data integrity requirements (Entity, Referential, Domain)
Able to generate	The DDL script was		The DDL script was
and modify a schema given a logical model in SQL Developer. (5)	executed without errors. SS1 Emmacin tutto	risco Esambl	executed with errors.
Able to correctly	All notation of the miles of the same of t	Solder Catton City City	Few notations in the
use the required notation convention	are consistent.	model are consistent.	model are consistent.
and be consistent in its usage. (5)	Enteros: Vytert et	rat.pomcode	