

#### MONASH **INFORMATION** 程序代写作的编码器辅导

Week 4 – Multi-Fact

Semester 1, 2021

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# **Agenda**

#### 程序代写代做 CS编程辅导

- 1. Multi-Fact
  - 1. Different Subject Multi-間隔
  - 2. Multi-Fact or Single Figure Thutiple Eact Metalpres

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# Using FLUX





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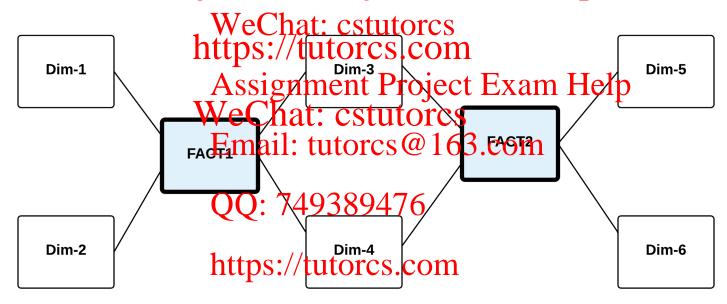
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 A Subject-Oriented data wa on one subject only. means that one star schema focuses

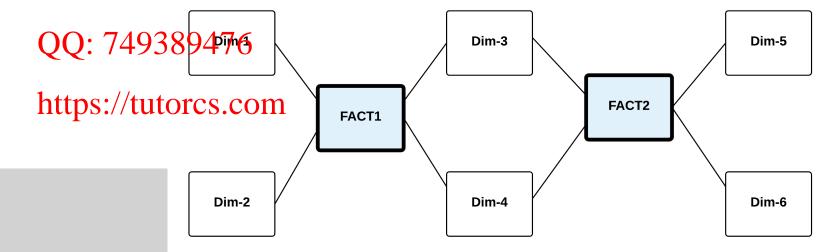
A subject refers to a topic is a subject Exam Help





#### 程序代写代做 CS编程辅导

- A Subject-Oriented data wa on one subject only.
  - A subject refers to a topic in the list is a subject Exam Help
- Example:
  - > Sales of properties & Rehtapsropertiess.com
    - o The two star schemas should pot be combined since both focus on different subjects.
    - But two separate star schemas can still share the same dimensions



means that one star schema focuses



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#### 程序代写代做 CS编程辅导

- 1. Different Subject Multi-F
- 2. Multi-Fact or Single Fact Hamiltonian Fact Measures: A Private Taxi Company Cases ignored Project Exam Help
- 3. To Combine or Not To Gopphine orcs.com
- 4. Different Granularity Mwite Charles cstutores
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Different Subject Assignment Roject Exam Help WeChat: cstutorcs
The Book Sales Case Wechat: cstutorcs

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The system stores information about including the authors, publishers, book categories, as well as the reviews that each by received. The "stars" attribute in the Review entity records the star rating for each review entity stars for excellent to 1 star for poor, etc). One book may receive many reviews. For spin point is asjeuted as all best pown in the E/R diagram, that a book will only have one category.

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The E/R diagram also includes entities related to sales of books, and the stores which sale the books. Each store has many sales transaction may include several books (i.e. the Sales Details entity). The Total Price attribute in the Sales Details entity is basically Quantity multiplied by the Unit Price, whereas Total Price in the Sales entity is the total price for each sales transaction 1476



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The requirements for the data ware answer at least the following questic

quite simple. The data warehouse must be able to

- What are the total sales for each like the in.a month? Assignment Project Exam Help What is the number of books sold for each category?
- What is the book category that hat the highest total vales?
- What is the number of reviews for each category?
- How many 5-star reviews for each teate of the company of the star reviews for each teate of the company of the

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Based on the requirements, it clear that there are three fact頃 measures:

1. Total sales,

3. Number of reviews.

The dimensions:

Store dimension,

Time dimension,

3. Book category dimension, and

4. Star rating dimension.



Country

**CATEGORY** CategoryID CategoryDescription



4. Star rating dimension.

程序代写代做 CS编程辅导 **CATEGORY** CategoryID CategoryDescription Based on the requirements, it **TITLEAUTHOR BOOK PUBLISHER** clear that there are three fact頃 **ISBN ISBN** AuthorID PublisherID PublisherName measures: Description Website PublishedYear Address **PublisherID** Suburb Total sales, CategoryID State Number of books sold, and Project Exam Help Postcode Country **SALESDETAILS** SalesID Number of reviews. We Chat: esturtores views **REVIEW ISBN** Quantity ReviewNum Email: tutorcs@163.com **ISBN** The dimensions: **TotalPrice PreviewText** Stars Store dimension, QQ: 74938947 **SALES** SalesID Time dimension, Address SalesDate https://tutorcs.com StoreID **TotalPrice** Book category dimension, and Country



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Based on the requirements, it clear that there are three fact頃 ent Project Exa Assigni measures:

Total sales,

Number of books sold, and

3. Number of reviews.

The dimensions:

Store dimension,

Time dimension,

https://tutorcs.com 3. Book category dimension, and

4. Star rating dimension.

CategoryDescription Chat: cstutores

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**StarRatingDIM StarID** StarDescription

StoreID CategoryID **TimeID** StarID Num of Books Total Sales

**BookSalesFACT** 

StoreID Address Suburb Postcode State Country

StoreDIM

TimeID Month Year

TimeDIM



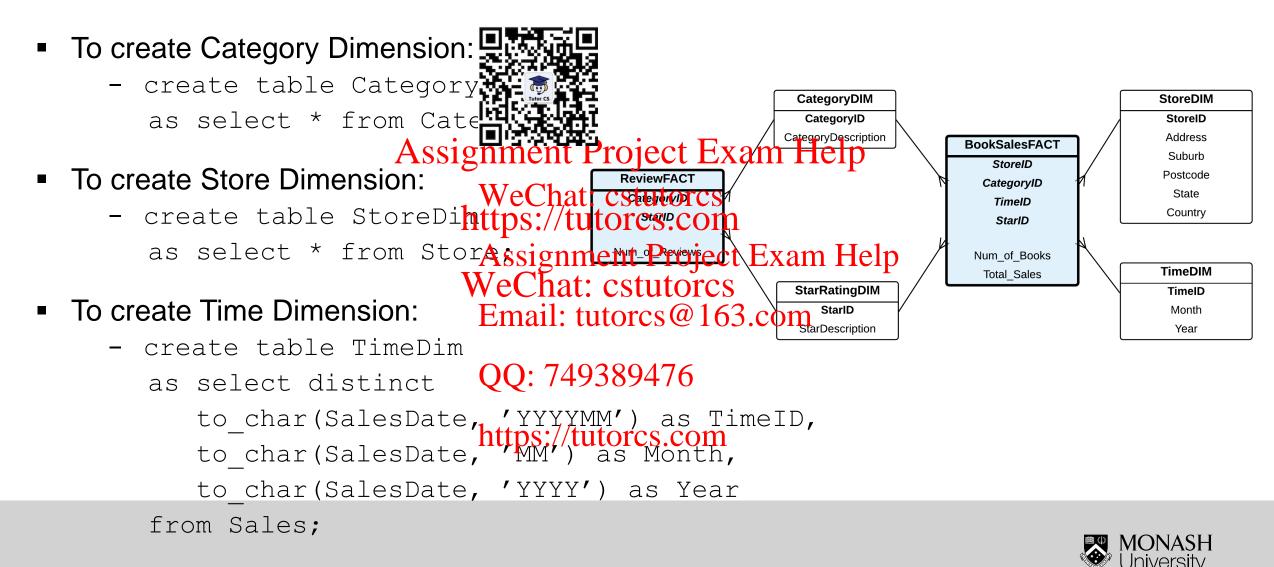
The Book Sales Case Study 程序代写代做 CS编程辅导 CategoryDIM StoreDIM (a) A Multi-Fact Star Schema CategoryID StoreID CategoryDescription Address **BookSalesFACT** Suburb StoreID Postcode CategoryID State CategoryDIM **TimeID** Country StarID CategoryID Reject Exam Help CategoryDescription Boo Sale JACT Num\_of\_Books **TimeDIM** StoreID **StarRatingDIM** Total Sales TimeID ReviewFACT CategoryID **StarID** Month CategoryID StarDescription Year StarID StarID Assignment Project Exam Help Num of Reviews Num of Books Total Sales CategoryDIM **StarRatingDIM COtted dryID** StarID CategoryDescription ReviewFACT StarDescription CategoryID QQ: 749389476 StarID **StarRatingDIM** Num of Reviews

https://tutorcs.com

StarID StarDescription



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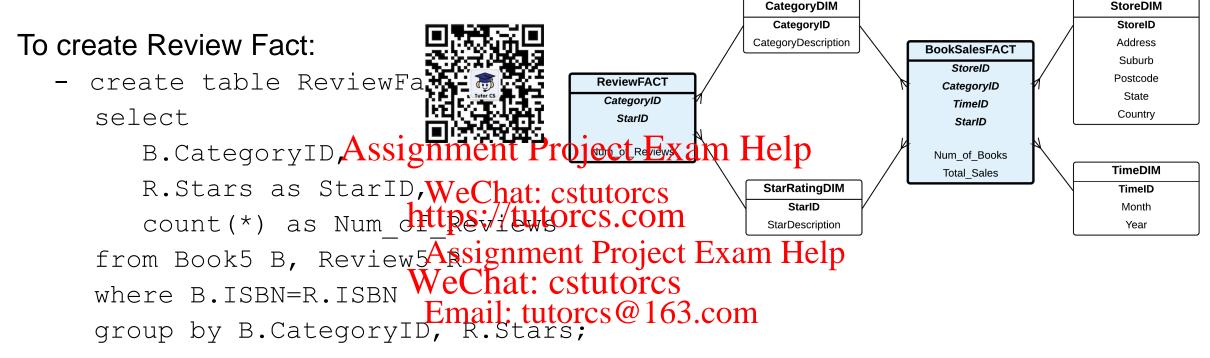


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- To create Star Rating Dimensio
  - create table StarRati (StarID number(1), StarDescription Assignment Froje
    - StarDescription Assignment Project Exam Help
- Inserting values to Star Rating WeChat: cstutorcs
  - insert into StarRatingDim atalestutores 'Poor'); insert into StarRatingDim values @2,63.000 Good'); insert into StarRatingDim values (3, 'Average'); insert into StarRatingDim values (4, 'Good'); insert into StarRatingDim values (4, 'Good'); insert into StarRatingDim values (4, 'Excellent');



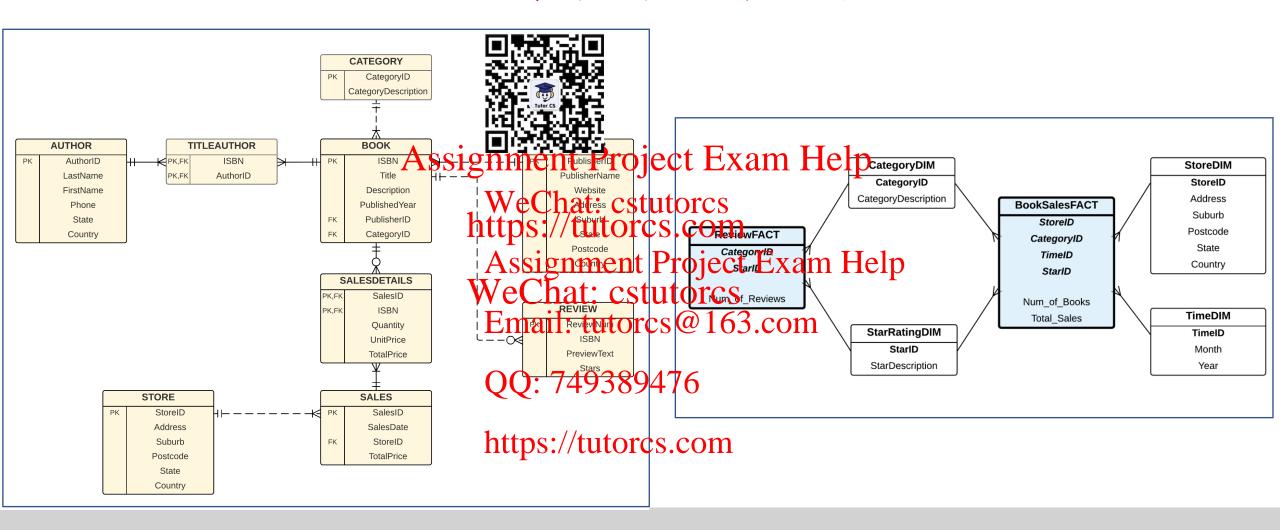
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# The Book Sales Case Study 程序代写代做 CS编程辅导





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■ To do an outer join between Bo



To calculate average stars:

- create table TempBookWithAvgStar as select ISBN, CategoryHttps://tutorcavgoryhttps:/



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■ To do an outer join between Bo



To calculate average stars:

- create table TempBookWithAvgStar as select ISBN, CategoryHttps://tutorcavgoryhttps:/



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■ To do an outer join between Bo



To calculate average stars:

- create table TempBookWithAvgStar as select ISBN, CategoryHttps://tutorcavgoryhttps:/



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■ To do an outer join between Bo



To calculate average stars:

- create table TempBookWithAvgStar as select ISBN, CategoryHtps: \*/Qundreavg(Stars)) as Avg\_Stars from TempBookWithStar group by ISBN, CategoryID;



程序代写代做 CS编辑编

CategoryDIM

CategoryID

CategoryDescription

Num of Reviews

**BookSalesFACT** 

CategoryID

TimeID

StarID

Num of Books

To create Book Sales Fact:

```
Total Sales
                                                         StarRatingDIM
                                                          StarID
- create table BookSale
                                                         StarDescription
  select T.CategoryID,
          to char (SAssignment, Project Exams Help ID,
          S.StoreID,
                           WeChat: cstutorcs
          T. Avg Stars attps://tutorcs.com
          sum (D. Quantity Assignment Project Exam Help
          sum (D. TotalPrice Chat: cstutorcs es
  from TempBookWithAvgStar
  where T.ISBN = D.ISBNOO: 749389476
  and D.SalesID = D.SalesID
  group by T.CategoryInttps://tutorcs.com/esDate, 'YYYYMM'), S.StoreID,
             T.Avg Stars;
```



StoreDIM

Address

Suburb

Postcode

State

Country

TimeDIM

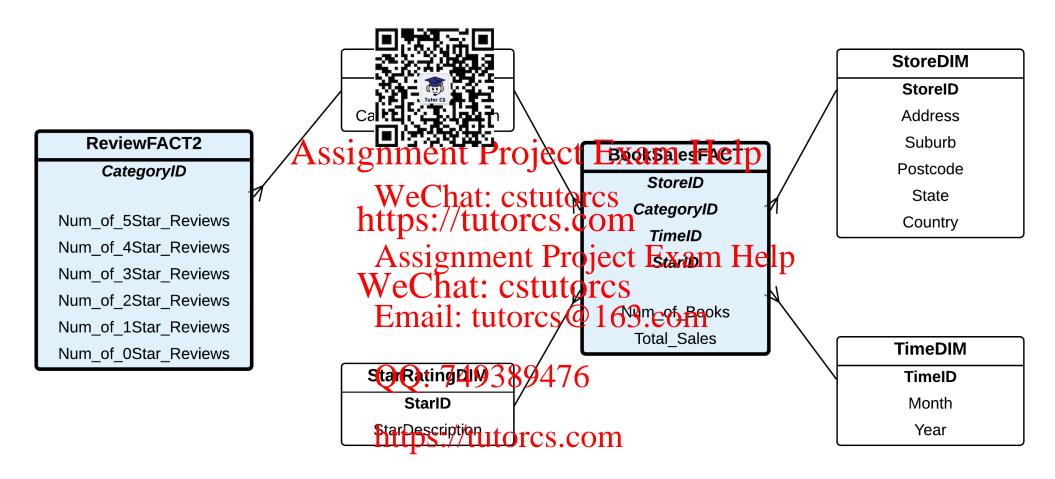
TimeID

Month

Year

### **Multi-Fact with Pivot Table**

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### **Multi-Fact with Pivot Table**

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Num of 5Star Reviews

Num of 4Star Reviews

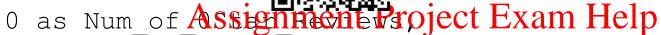
Num of 3Star Reviews

Num of 2Star Reviews

Num of 1Star Reviews

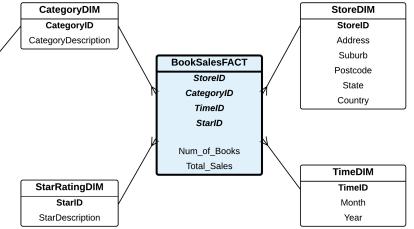
Num of OStar Reviews

- To create Review Fact with Pivol
  - create table ReviewFa select CategoryID,



- 0 as Num\_of\_1StarWReChar.Sostutorcs
- 0 as Num of 2Stahttps://twtorcs.com
- 0 as Num of 3StarAssignment Project Exam Help
- 0 as Num\_of\_4Star\_Reviews from CategoryDim; Cstutorcs@163.com - 5Star\_Reviews

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### **Multi-Fact with Pivot Table**

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```
Update rating value in Review Fact with
                                                           from ReviewFact F1
                                                           where F2.CategoryID = F1.CategoryID
  - update ReviewFact2 F2
                                                            and F1.StarID = 3), 0),
     set
                                                       Num of 4Star_Reviews = Xam | Compared Num of Reviews
       Num of 1Star Reviews
         nvl((select Num_of_Review
                                    WeChat: cstutorcs
                                                            from ReviewFact F1
           from ReviewFact F1
                                                           where F2.CategoryID = F1.CategoryID
           where F2.CategoryID =
                                    Assignment Project Exam Helparid = 4),0),
           and F1.StarID = 1), 0),
                                   WeChat: cstutorcs of 5Star_Reviews =
      Num of 2Star Reviews =
         nvl((select Num of Reviews Email: tutorcs@163.com (select Num of Reviews
                                                            from ReviewFact F1
           from ReviewFact F1
           where F2.CategoryID = F1.Category
                                                           where F2.CategoryID = F1.CategoryID
           and F1.StarID = 2),0),
                                                            and F1.StarID = 5), 0);
                                    https://tutorcs.com
      Num of 3Star Reviews =
         nvl((select Num of Reviews
```



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Multiple Fact Measurestps://tutorcs.com

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A Private Taxi Company Yeshatsestutores

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# A Private Taxi Company Case Study 程序代写代做 CS编程辅导

A private taxi company is a small but in the owner of this company owns five cars, which can be chartered like a taxi. The busine can any clients, and the number of clients grow due to word of mouth. When a client need the company (such as sending them from their home to the airport, or vice signal, one) send to booking the light an SMS or a chatting social media (e.g. WhatsApp). Once the booking is confirmed, a driver will pick the clients up and send them to the destination. The charge pare toomally corpre-defined fixed price, such as from an inner suburb of the city to the airport is \$900 the page thight be splightly more expensive than the normal taxi, but somehow many cite hts prefetulte services that this company offer.

The company has three full-time drivers, including the owner himself, and five sessional or part-time drivers who may be called when the company needs drivers. Every time a client hires this taxi, the information (e.g. origin and destination, pickup time and date, fares, driver, car, distance travelled, amount of petrol used, etchispecarded into their operational database.



A Private Taxi Company Case

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On top of this operational databa also builds a data warehouse for re The data warehouse is a star scher dimensions: Car dimension, Assignment Project Exam

Week dimension. Basically the company would like to cs

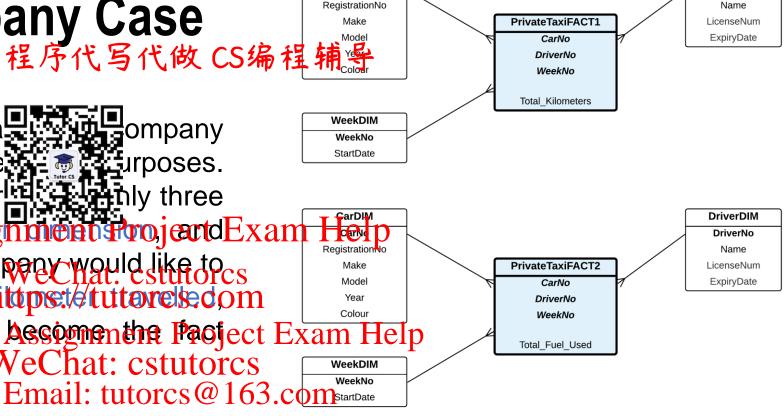
analyze their total income, total https://tutoreledom

and total fuel used. These then Assignmenting Pasiect Exam Help

measures of the star schema. WeChat: cstutorcs

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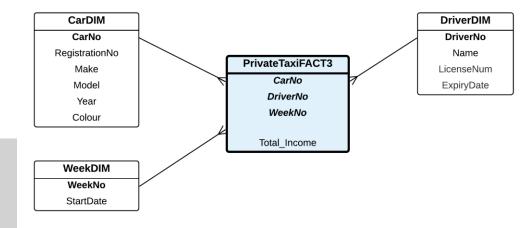


DriverDIM

DriverNo

CarDIM

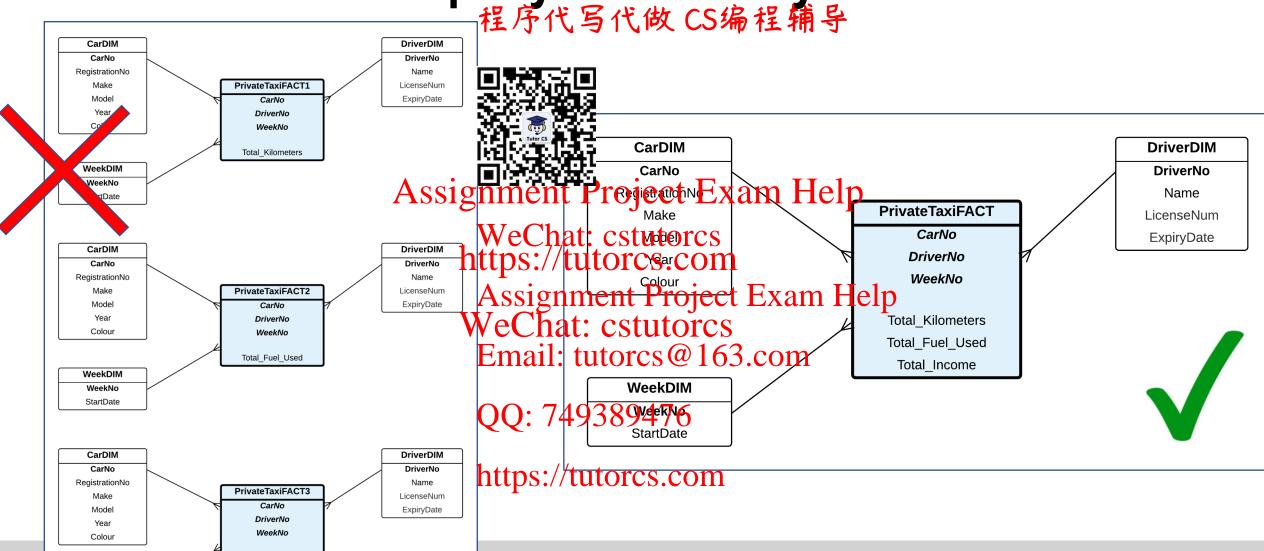
CarNo



A Private Taxi Company Case Study 程序代写代做 CS编程辅导

Total Income

WeekNo StartDate





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# **Summary**

#### 程序代写代做 CS编程辅导

- A Star Schema with Multi-F each Fact focuses on a sub
- Star schemas with diffarent subjects.
- When multiple star schemasyleaventesubjects (or different dimensions), they cannot be merged into the star schema.

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