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# FIT3003 – Business Intelligence and Data Warehousing

Week 3a – Bridge Tables

Semester 2, 2021

Developed by:  
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程序代写 代做 CS 编程辅导



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# Agenda

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## 1. Bridge Tables

1. Product Sales Case Study
2. Truck Delivery Case Study



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# Using FLUX

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1. Visit <http://flux.qa/> on your internet connected device
2. Log in using your Monash account if required if you are already logged in to Monash
3. Click on the “+” to join audience
4. Enter the Audience Code:
  - Clayton – **Z9J7MT**
  - Malaysia – **PMYBD6**
5. Select FIT3003 in the Active Presentation menu



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The screenshot shows a web browser window titled "FLUX". The URL is https://flux.qa/#/feeds/5d368... . The page displays a poll titled "Lecture 0". The poll is a "Multiple Choice" type with the question "What did you have for dinner?". There are five options listed: A) Pasta, B) Rice, C) Pizza, D) Salad, and E) Nothing.

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# Bridge Tables

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- A *bridge table* is a table that connects two dimensions; and only one of these two dimensions are part of the fact.
- As a result, the star schema becomes a *snowflake schema*.

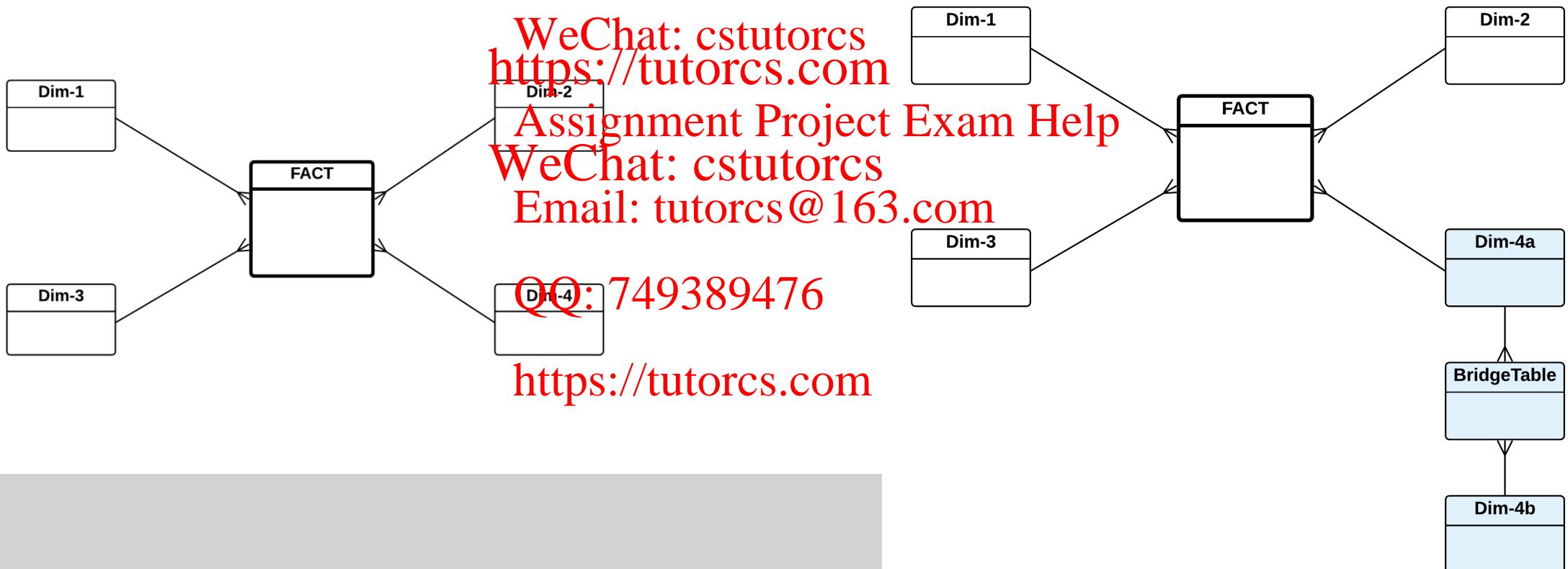
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# Bridge Tables

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- Two reasons on why a dimension cannot be connected directly to the Fact:

- a) The Fact table has a fact key identity, and the dimension has a key identity. In order to connect a dimension to the Fact, the dimension's key identity must contribute directly to the calculation of the fact measure. Unfortunately, this cannot happen if the operational database does not have this data.
- b) The operational database does not have this data if the relationship between two entities in the operational database that hold the information about dimension's key identity and the intended fact measure is a *many-many* relationship.



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# Case Study #1 – A Product Sales Case Study

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- A company management team make to analyze the statistics of its product sales history. The analysis is needed to identify popular products, suppliers supplying those products, the best time to purchase more stock, etc.
- A small data warehouse is to be built to keep track of the statistics.
- The management is particularly interested in analyzing the *total sales* (*quantity \* price*) by *product*, *customer suburbs*, *sales time periods* (*month and year*), and *supplier*.



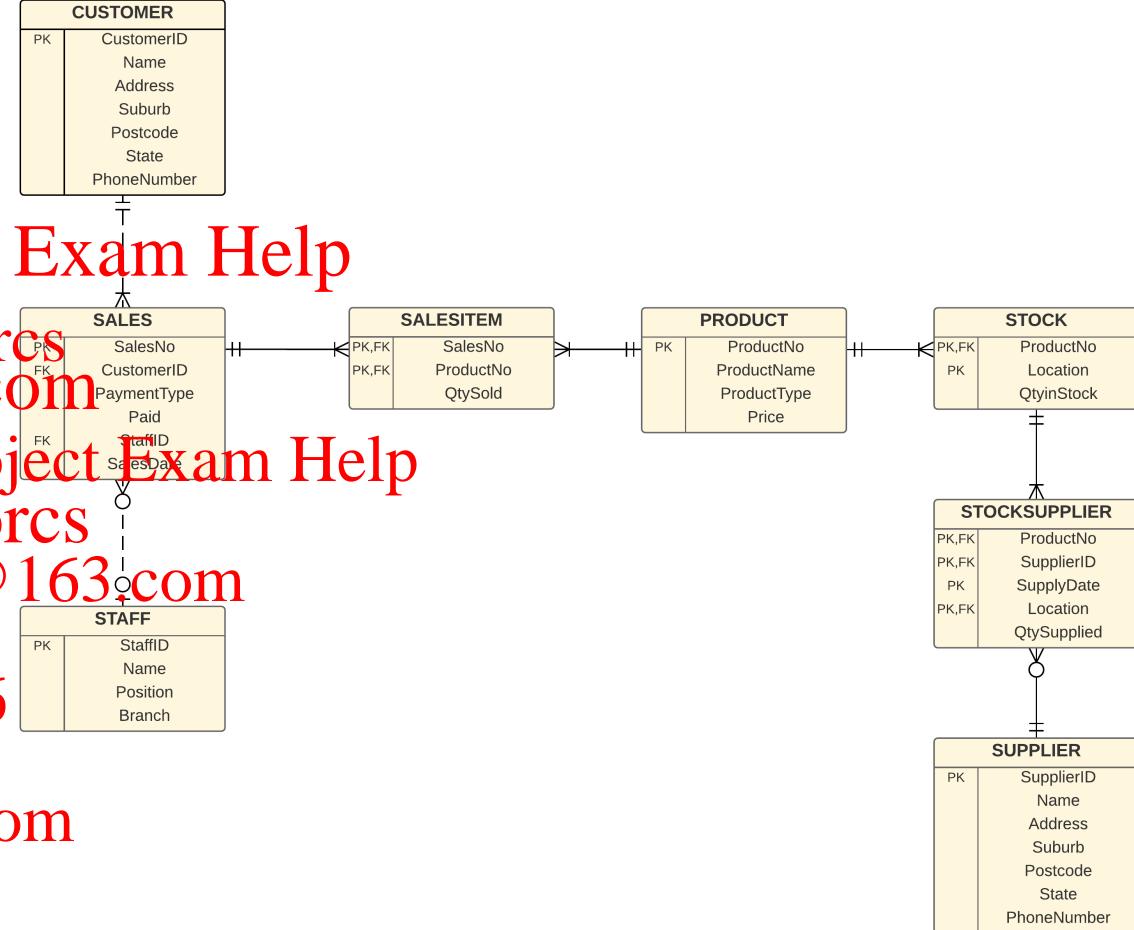
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- The management is particularly interested in analyzing the *total sales* (quantity) by *product*, *customer suburbs*, *time periods* (month and year), and



CUSTOMER	
PK	CustomerID
	Name
	Address
	Suburb
	Postcode
	State
	PhoneNumber

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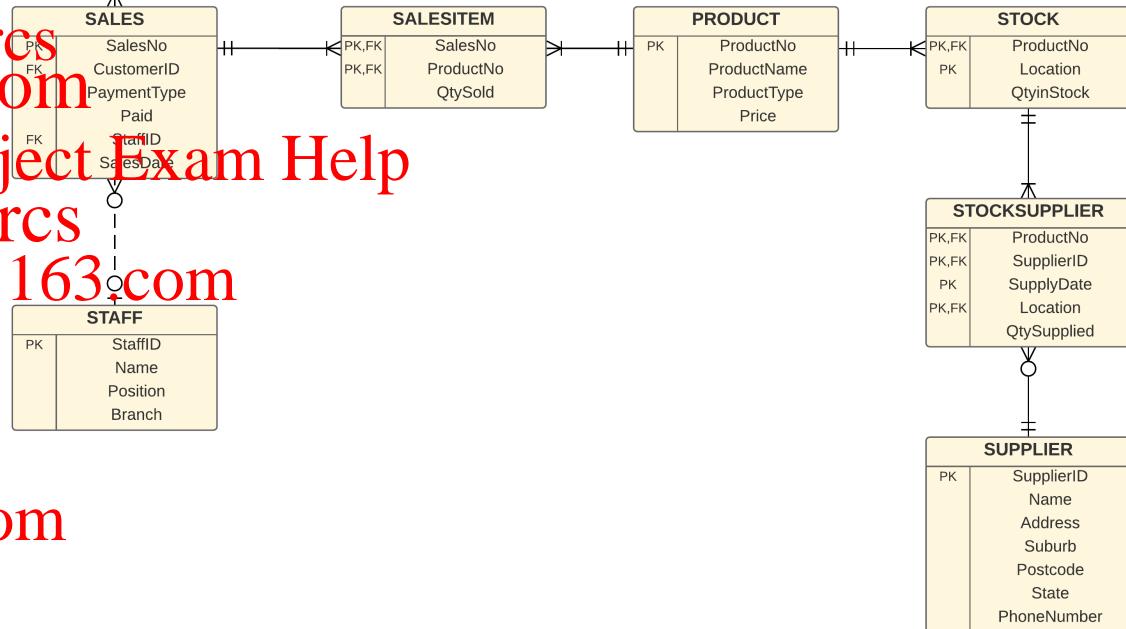
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# Case Study #1 – A Product Sales Case Study

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- The management is particularly interested in analyzing the *total sales* (quantity) by *product*, *customer suburbs*, *time periods* (month and year), and *supplier*.



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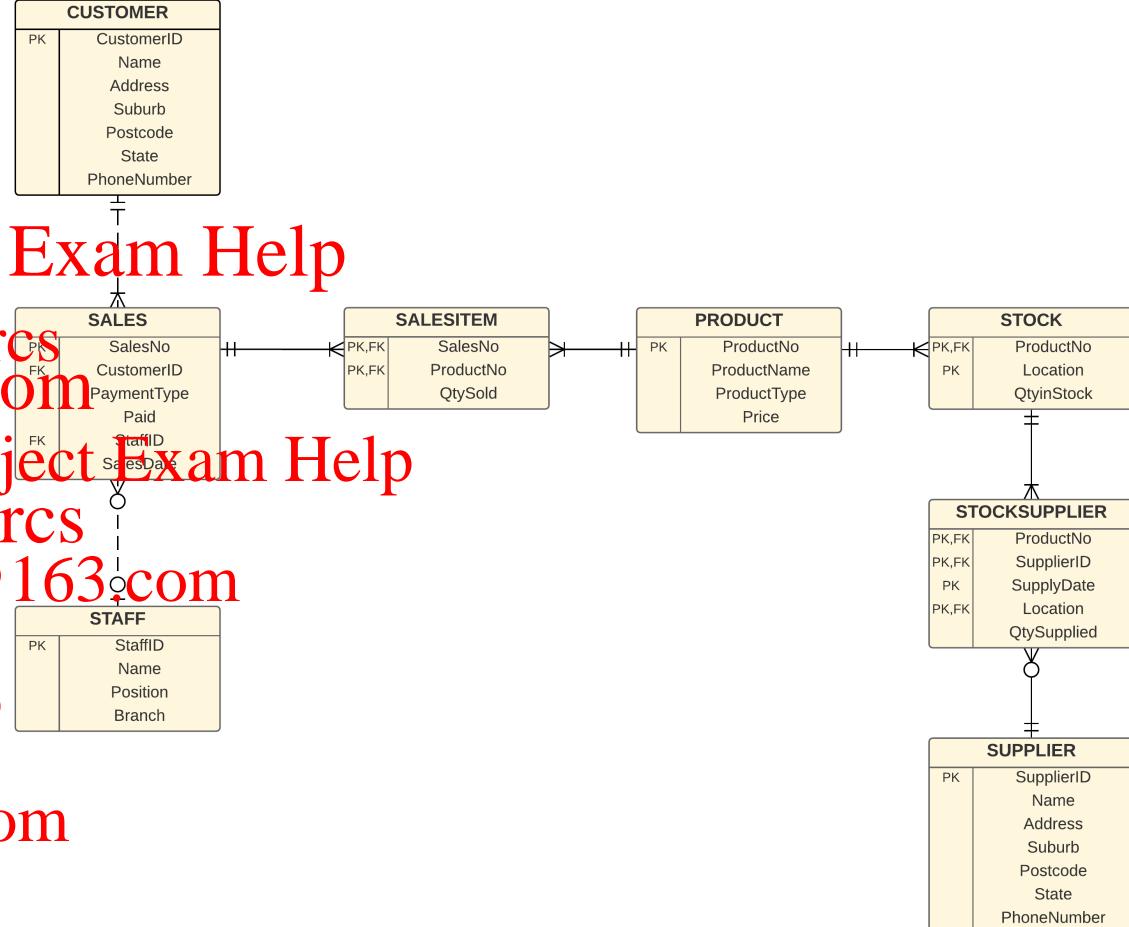
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# Case Study #1 – A Product Sales Case Study

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- Possible Two-Column Methodology Examples:

ProductNo	TotalSales
A1	\$130,000
B2	\$15,900
C3	\$2,500,000
...	...

(a) Product point of view



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201801		\$25,000
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201802		\$4,700
	Assignment Project	Exam Help
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201803		\$3,500
	Email: tutorcs@163.com	
	QQ: 749389476	...

(b) Time point of view  
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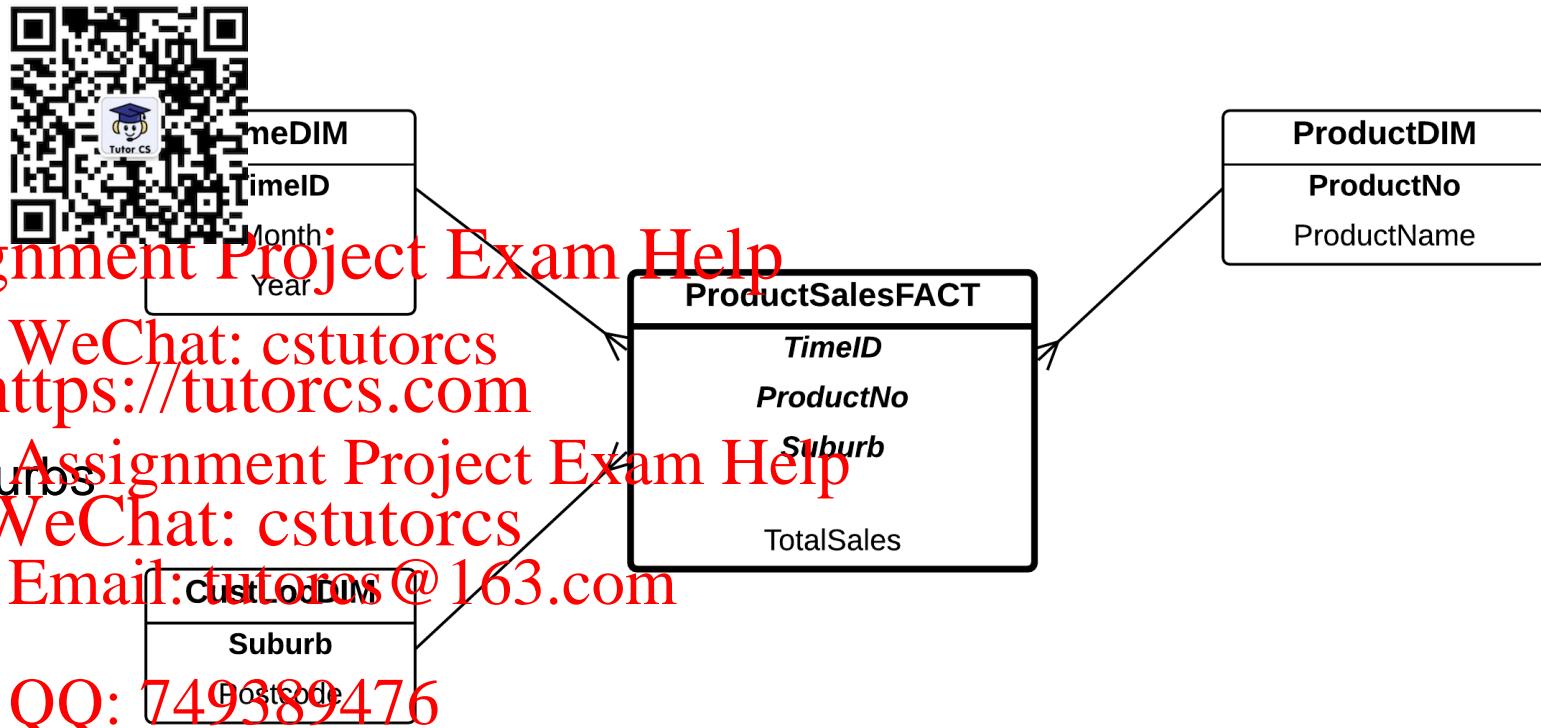
Suburb	TotalSales
Caulfield	\$6,500
Chadstone	\$12,000
Clayton	\$1,800
...	...

(c) Suburb point of view

# Case Study #1 – A Product Sales Case Study

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- Sales Star Schema
  - **Fact:**
    - Total Sales
  - **Dimensions:**
    - Product
    - Customer locations/suburbs
    - Time period
    - Supplier



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# Case Study #1 – A Product Sales Case Study

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TimeID	Suburb	ProductNo	TotalSales
201801	Caulfield	A1	\$450
201801	Caulfield	B2	\$100
201801	Caulfield	C3	\$320
201801	Caulfield	...	
201801	...	...	
201801	Chadstone	A1	\$75
201801	Chadstone	B2	\$600
201801	Chadstone	C3	\$55
201801	Chadstone	...	
201801	...	...	
201801	Clayton	A1	\$130
201801	...	...	
201802	Caulfield	A1	\$500
201802	Caulfield	B2	\$430
201802	Caulfield	C3	\$120
...	...	...	...



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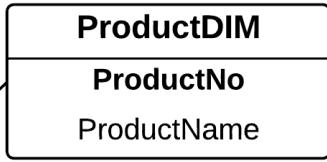
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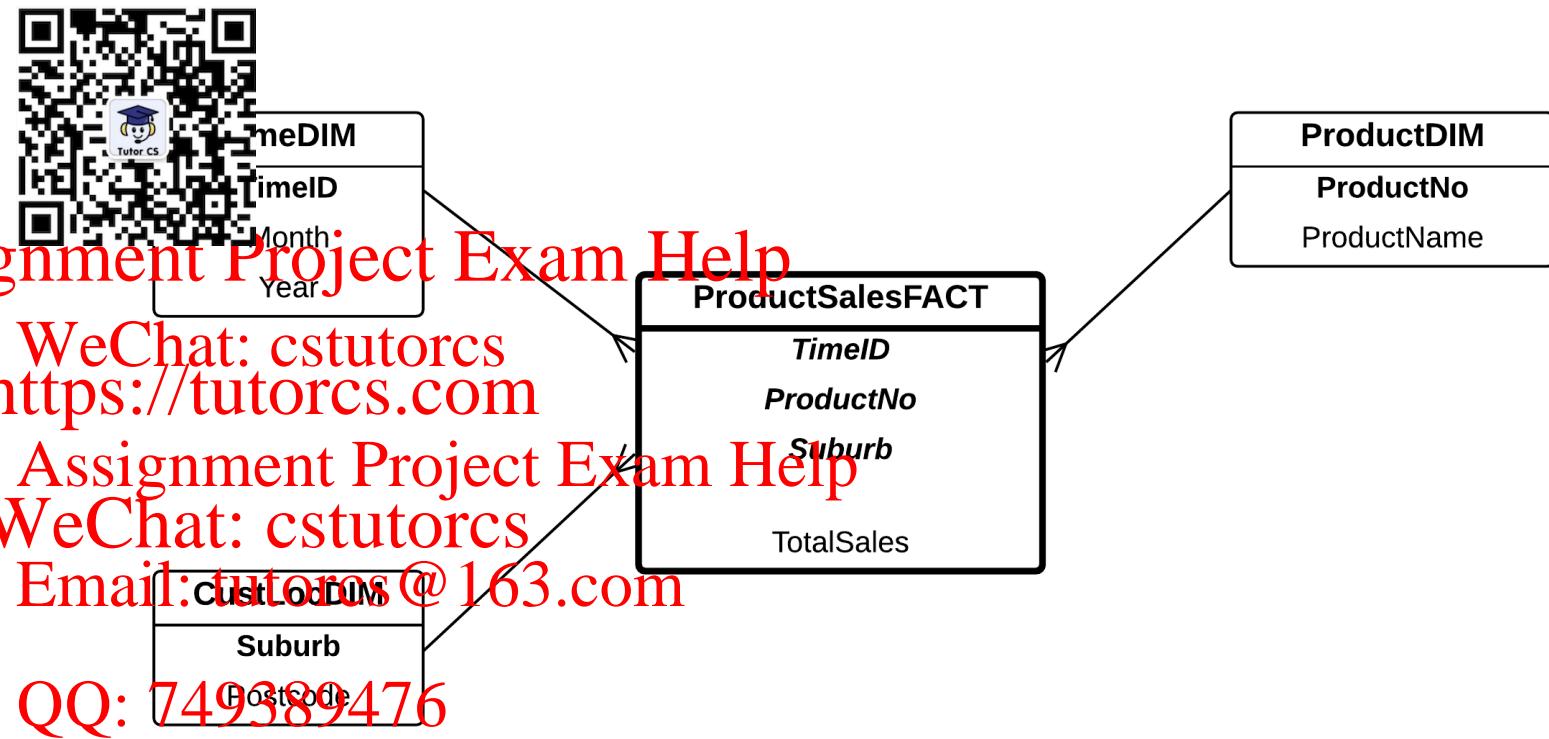


# Case Study #1 – A Product Sales Case Study

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SupplierID	TotalSales
S1	\$77,000
S2	\$5,700
S3	\$12,500
...	...

Supplier point of view



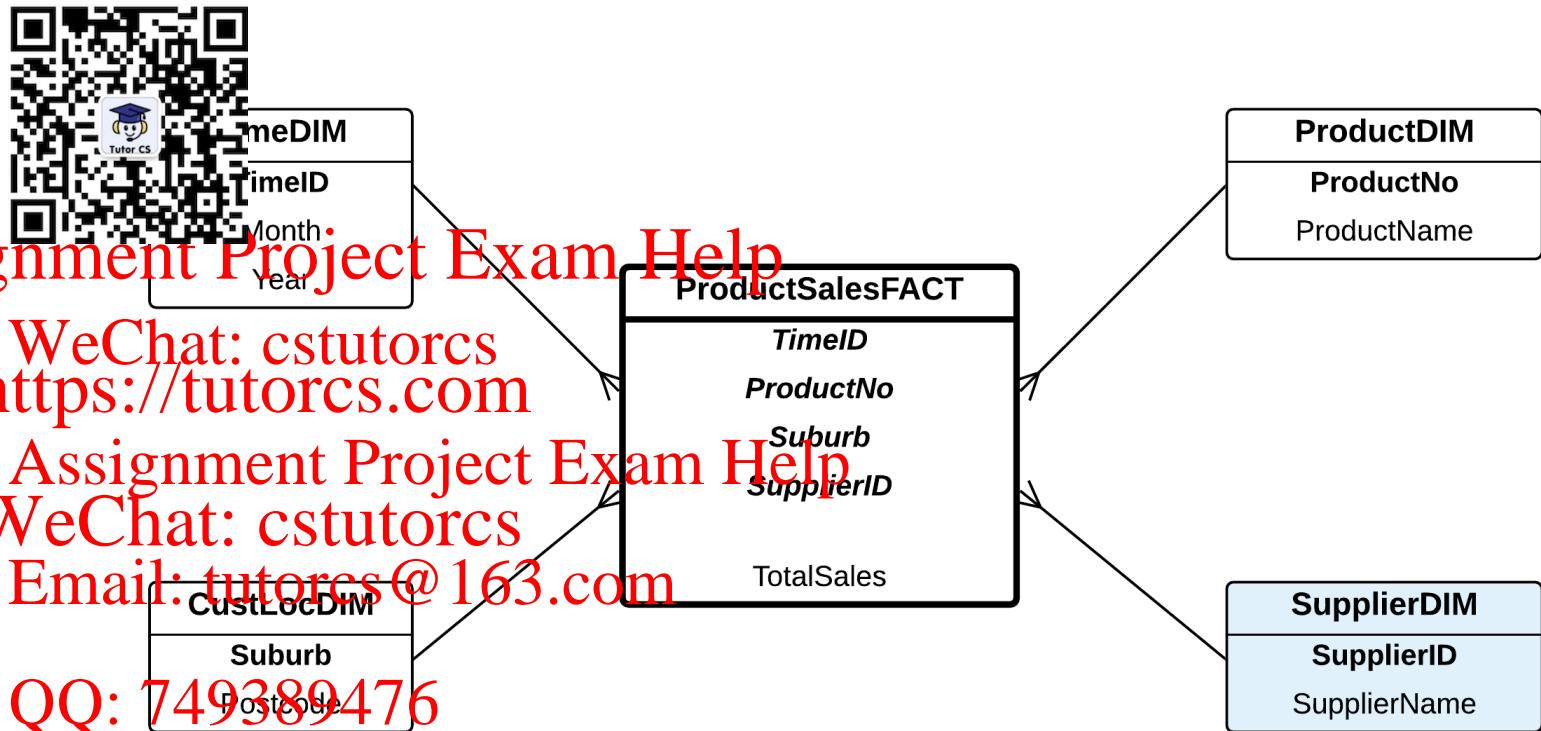
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# Case Study #1 – A Product Sales Case Study

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SupplierID	TotalSales
S1	\$77,000
S2	\$5,700
S3	\$12,500
...	...

Supplier point of view

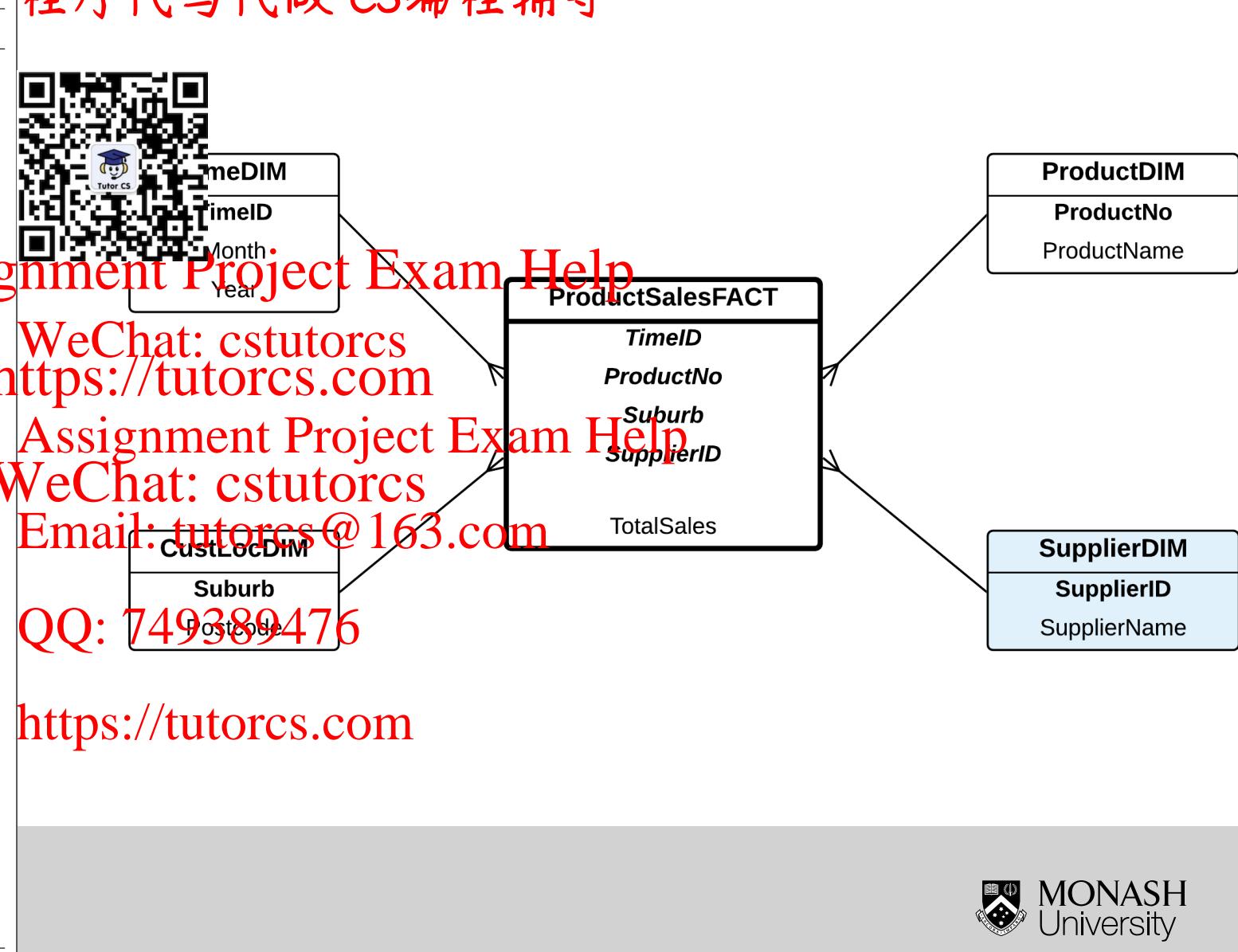


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# Case Study #1 – A Product Sales Case Study

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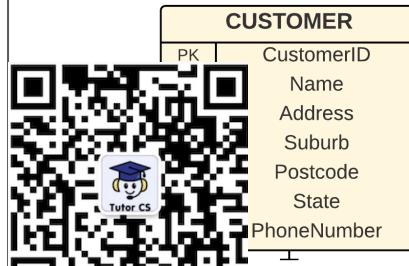
TimeID	Suburb	ProductNo	SupplierID	TotalSales
201801	Caulfield	A1	S1	...
201801	Caulfield	A1	S2	...
201801	Caulfield	A1	S3	...
201801	Caulfield	A1	...	...
201801	Caulfield	B2	S1	...
201801	Caulfield	B2	S2	...
201801	Caulfield	B2	S3	...
201801	Caulfield	B2	...	...
201801	Caulfield	C3	S1	...
201801	Caulfield	C3	S2	...
201801	Caulfield	C3	S3	...
201801	Caulfield	C3	...	...
201801	...	...	...	...
201801	Chadstone	A1	S1	...
201801	Chadstone	A1	S2	...
201801	Chadstone	A1	S3	...
201801	Chadstone	A1	...	...
201801	...	...	...	...
201802	Caulfield	A1	S1	...
201802	Caulfield	A1	S2	...
201802	Caulfield	A1	S3	...
201802	Caulfield	A1	...	...
...	...	...	...	...



# Case Study #1 – A Product Sales Case Study

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TimeID	Suburb	ProductNo	SupplierID	TotalSales
201801	Caulfield	A1	S1	...
201801	Caulfield	A1	S2	...
201801	Caulfield	A1	S3	...
201801	Caulfield	A1	...	...
201801	Caulfield	B2	S1	...
201801	Caulfield	B2	S2	...
201801	Caulfield	B2	S3	...
201801	Caulfield	B2	...	...
201801	Caulfield	C3	S1	...
201801	Caulfield	C3	S2	...
201801	Caulfield	C3	S3	...
201801	Caulfield	C3	...	...
201801	...	...	...	...
201801	Chadstone	A1	S1	...
201801	Chadstone	A1	S2	...
201801	Chadstone	A1	S3	...
201801	Chadstone	A1	...	...
201801	...	...	...	...
201802	Caulfield	A1	S1	...
201802	Caulfield	A1	S2	...
201802	Caulfield	A1	S3	...
201802	Caulfield	A1	...	...
...	...	...	...	...



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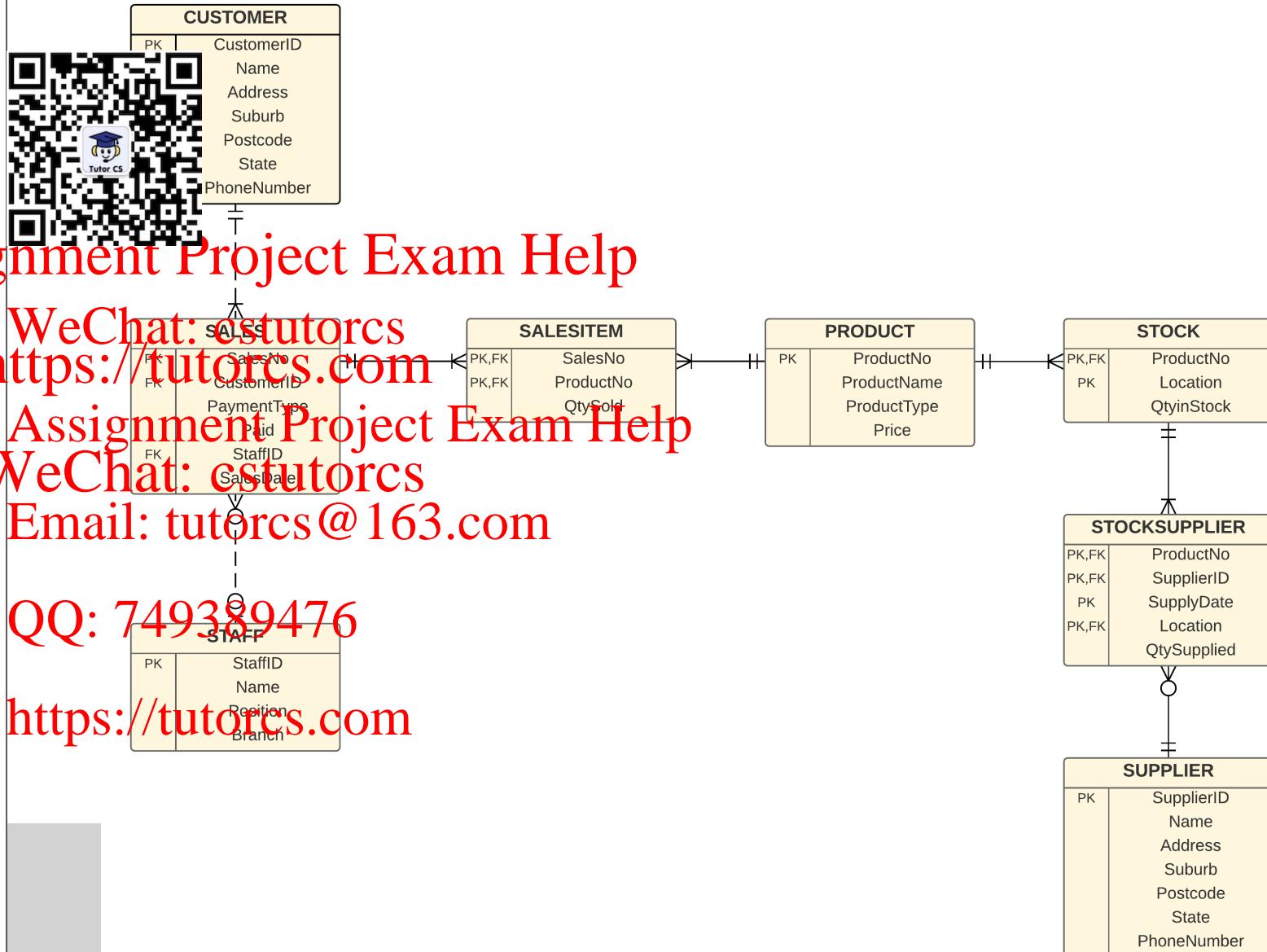
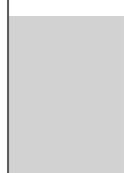
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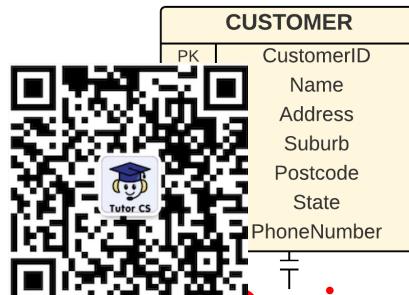
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# Case Study #1 – A Product Sales Case Study

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SupplierID	TotalSales
S1	\$77,000
S2	\$5,700
S3	\$12,500
...	



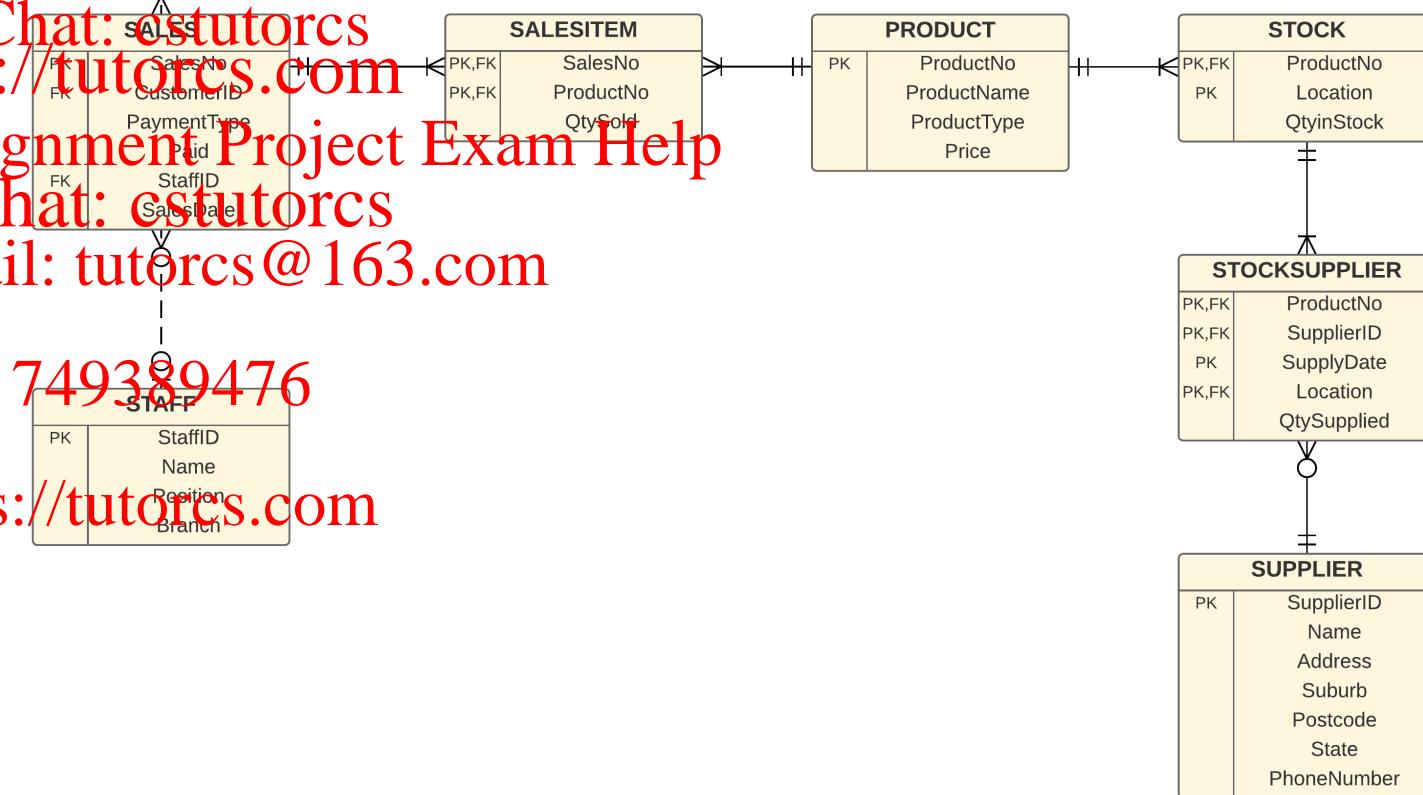
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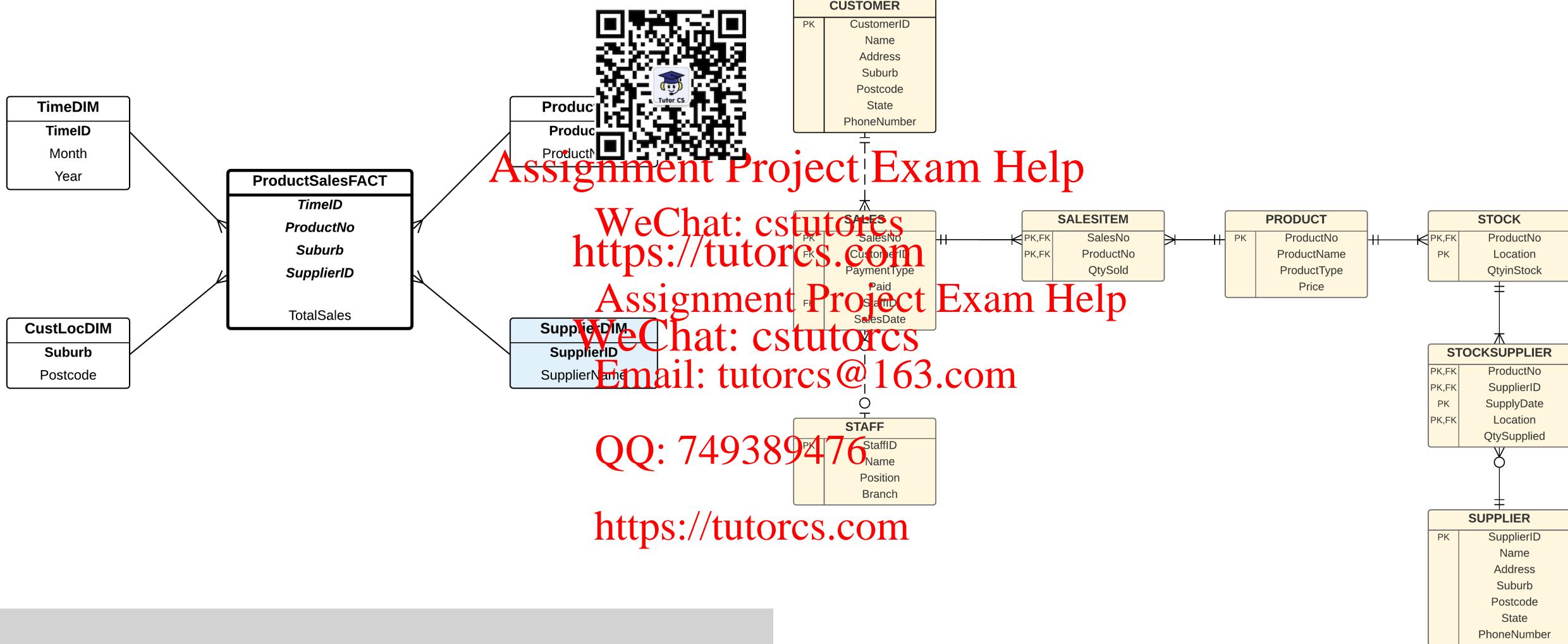
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# Case Study #1 – A Product Sales Case Study

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# Case Study #1 – A Product Sales Case Study

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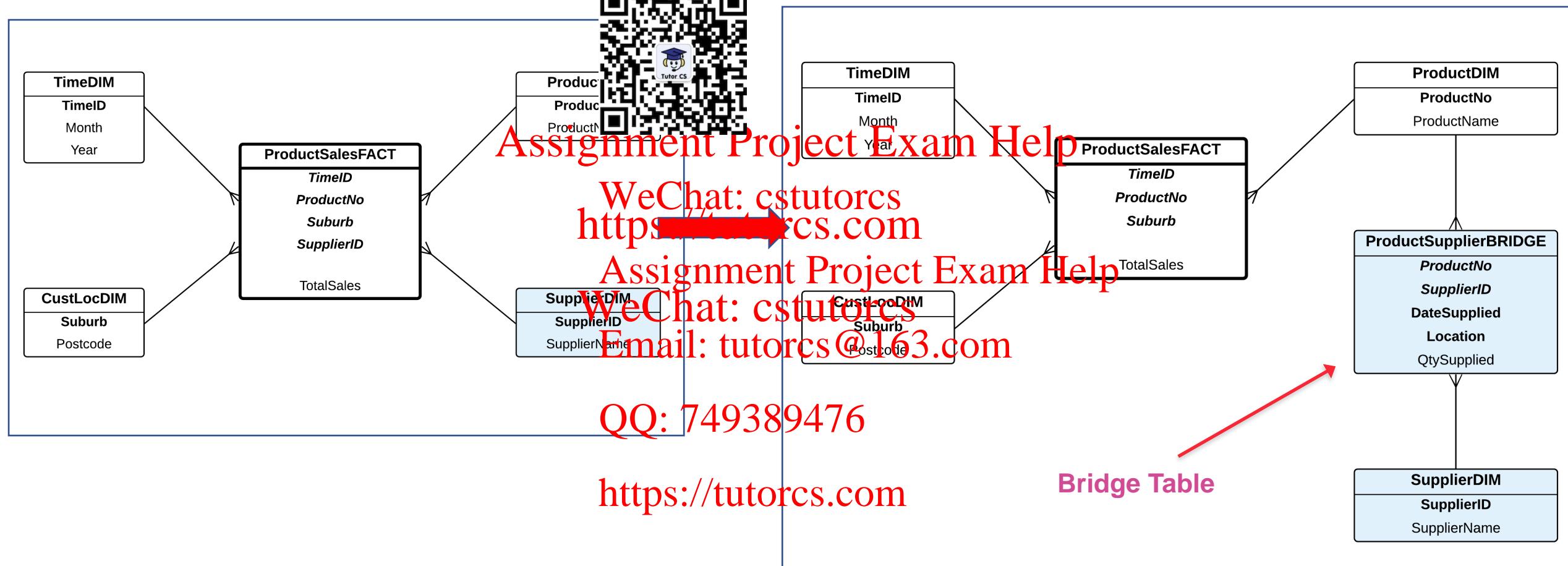
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Bridge Table



# Case Study #1 – A Product Sales Case Study

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- To create Time Dimension:

- create table TimeDim  
select  
distinct to\_char(SalesDate, 'YYYYMM') as TimeID,  
to\_char(SalesDate, 'YYYY') as Year,  
to\_char(SalesDate, 'MM') as Month  
from Sales;



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- To create Customer Location Dimension:

- create table CustLocDim as  
select distinct Suburb, Postcode  
from Customer;

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# Case Study #1 – A Product Sales Case Study

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- To create Product Dimension

- create table Product  
select distinct ProductID, ProductName  
from Product;



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- To create Bridge Table:

- create table ProductSupplierBridge as  
select \*  
from StockSupplier;

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- To create Supplier Dimension:

- create table SupplierDim as  
select SupplierID, Name as SupplierName  
from Supplier;

# Case Study #1 – A Product Sales Case Study

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- To create Fact Table:

- create table ProductSalesFact as  
Select  
    to\_char(S.SalesDate, 'YYYYMM') as Time,  
    P.ProductNo,  
    C.Suburb,  
    sum(SI.QtySold \* P.Price) as TotalSales  
from Sales S, Product P, Customer C, SalesItem SI  
where S.SalesNo = SI.SalesNo  
and SI.ProductNo= P.ProductNo  
and C.CustomerID = S.CustomerID  
group by  
    to\_char(S.SalesDate, 'YYYYMM'), P.ProductNo, C.Suburb;



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# Bridge Tables

## Case Study #2

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# Case Study #2 – A Truck Delivery Case Study

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- A trucking company is responsible for picking up goods from warehouses of a retail chain company, and delivering the goods to individual retail stores.
- A truck carry goods during a single trip which is identified by TripID, and delivers these goods to multiple stores. Trucks have different capacities for both the volumes they can hold and the weights they can carry.
- At the moment, a truck makes several trips each week. An operational database is being used to keep track the deliveries, including the scheduling of trucks, which provide timely deliveries to stores.



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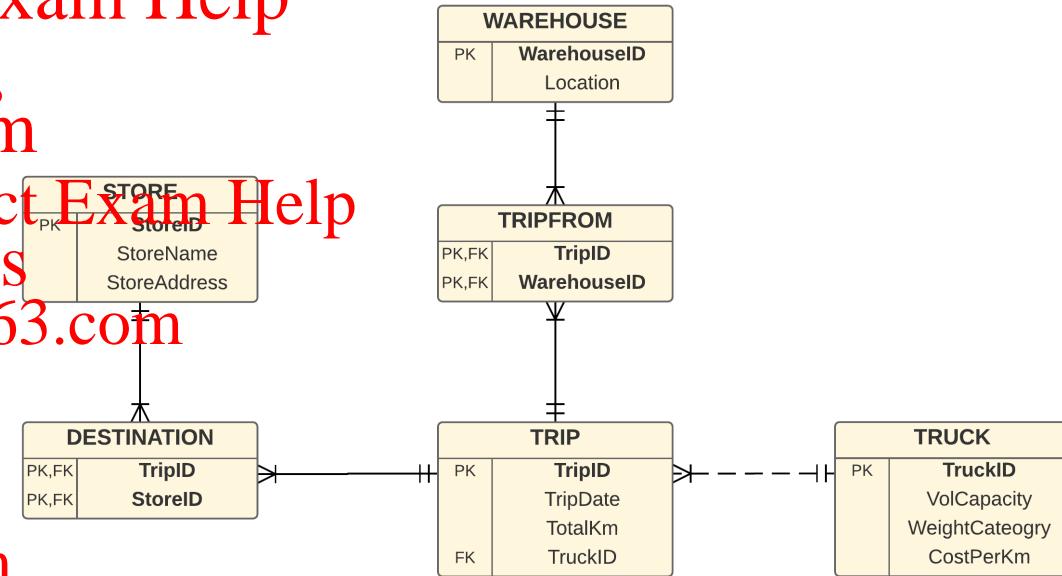
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# Case Study #2 – A Truck Delivery Case Study

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- A trip may pick up goods from many warehouses
  - i.e. a many-many relationship between Warehouse and Trip
- A trip uses one truck only, and a truck may have many trips in the history
  - i.e. a many-1 relationship between Trip and Truck
- A trip delivers goods (e.g. TVs, fridges, etc) potentially to several stores
  - a many-many relationship between Trip and Store, which is represented by the Destination table



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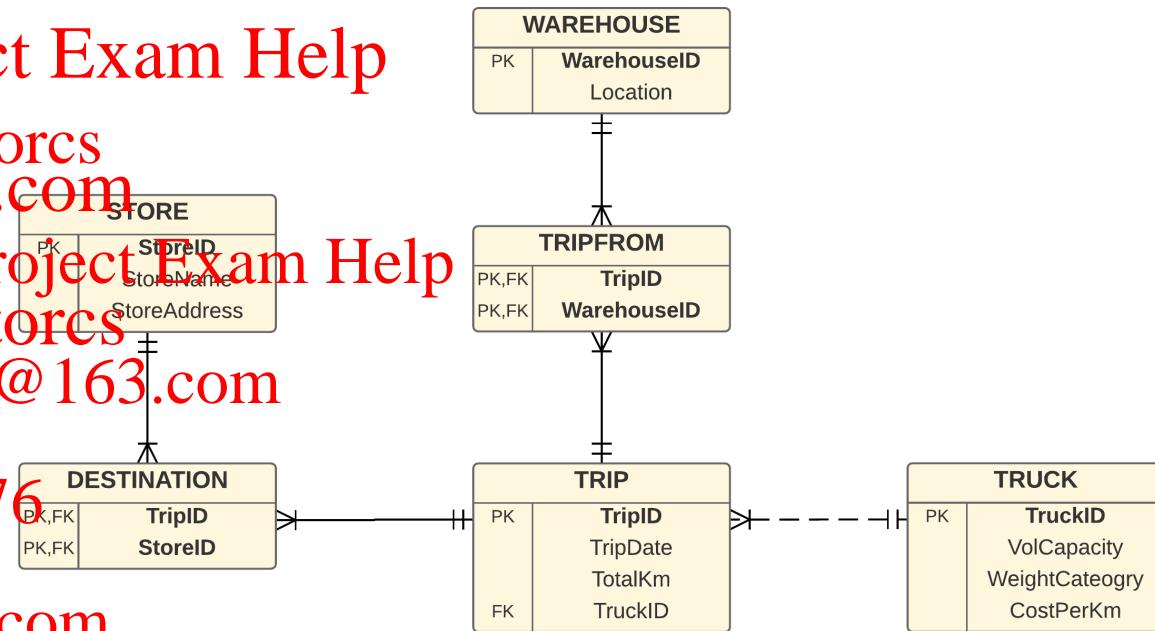
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# Case Study #2 – A Truck Delivery Case Study

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- Sample data in the operational

(a) Warehouse Table

WarehouseID	Location
W1	Warehouse1
W2	Warehouse1
W3	Warehouse1
...	...

(d) Truck Table

TruckID	VolCapacity	WeightCategory	CostPerKm
Truck1	250	Medium	\$1.20
Truck2	300	Medium	\$1.50
Truck3	100	Small	\$0.80
Truck4	550	Large	\$2.30
Truck5	650	Large	\$2.50
...	...	...	...



Trip Table

TripID	Date	TotalKm	TruckID
Trip1	14-Apr-2018	370	Truck1
Trip2	14-Apr-2018	570	Truck2
Trip3	14-Apr-2018	250	Truck3
Trip4	15-Jul-2018	450	Truck1
...	...	...	...

(e) Store Table

StoreID	StoreName	Address
M1	MyStore City	Melbourne
M2	MyStore Chaddy	Chadstone
M3	MyStore HiPoint	High Point
M4	MyStore Donc	Doncaster
M5	MyStore North	Northland
M6	MyStore South	Southland
M7	MyStore East	Eastland
M8	MyStore Knox	Knox
...	...	...

(c) TripFrom Table

TripID	WarehouseID
Trip1	W1
Trip1	W2
Trip1	W3
Trip2	W1
Trip2	W2
...	...

(f) Destination Table

TripID	StoreID
Trip1	M1
Trip1	M2
Trip1	M4
Trip1	M3
Trip1	M8
Trip2	M4
Trip2	M1
Trip2	M2
...	...

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# Case Study #2 – A Truck Delivery Case Study

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- The management of this trucking company would like to analyze the **deliver cost**, based on **trucks**, **time period**, and **store**.



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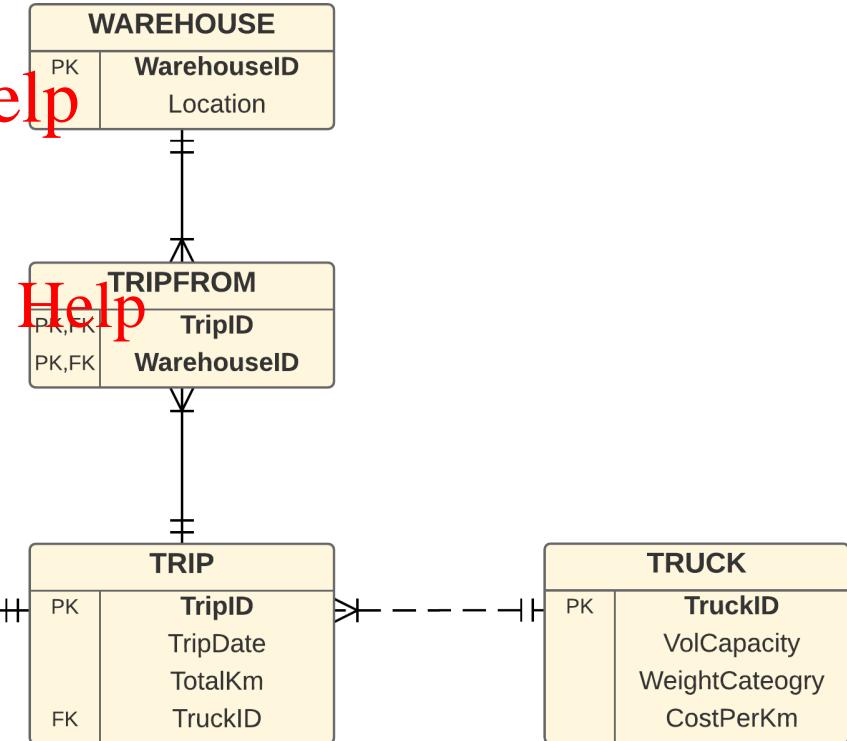
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# Case Study #2 – A Truck Delivery Case Study

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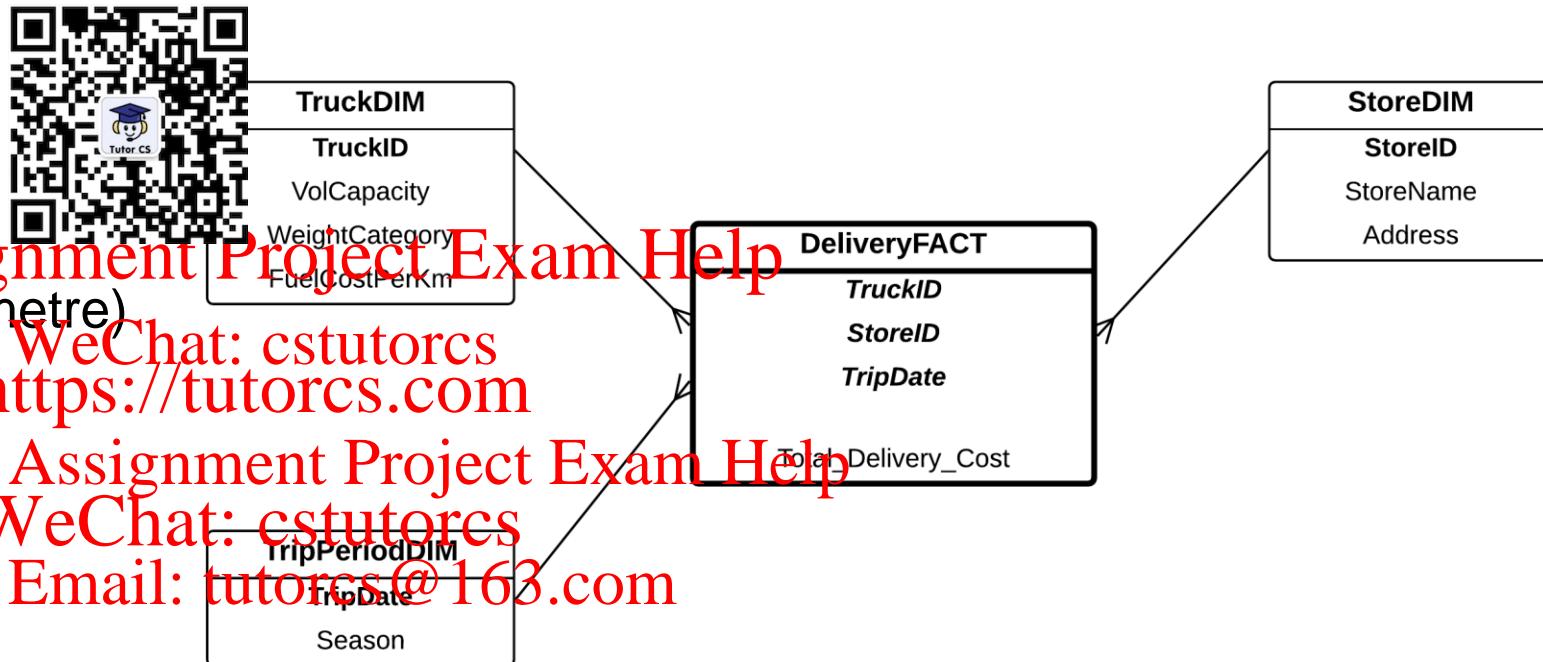
- Sales Star Schema

- Fact:

- Total Delivery Cost  
(distance \* cost per kilometre)

- Dimensions:

- Truck
    - Time period
    - Store



# Case Study #2 – A Truck Delivery Case Study

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- From the **Truck** point of view, Truck1 makes two trips (e.g. Trip1 and Trip4), with the total kilometres of 820km (370km + 450km). The cost for Trip1 is \$1.20/km. Hence, calculating the cost for Truck1 is straightforward. Other trucks can be calculated in the same way.
- From the **Period** point of view, on 14-Apr-2018, there are three trips (e.g. Trip1, Trip2, and Trip3). Trip1 (370km) is delivered by Truck1 which costs \$1.20/km. Trip2 and Trip 3, on the same day, can be calculated the same way. Hence, on 14-Apr-2018, the total cost can be calculated.
- From the **Store** point of view; The cost is calculated based on Trip, but a trip delivers goods to many stores. Therefore, the delivery cost for each store cannot be calculated. The delivery cost is for the trip – not for the store.

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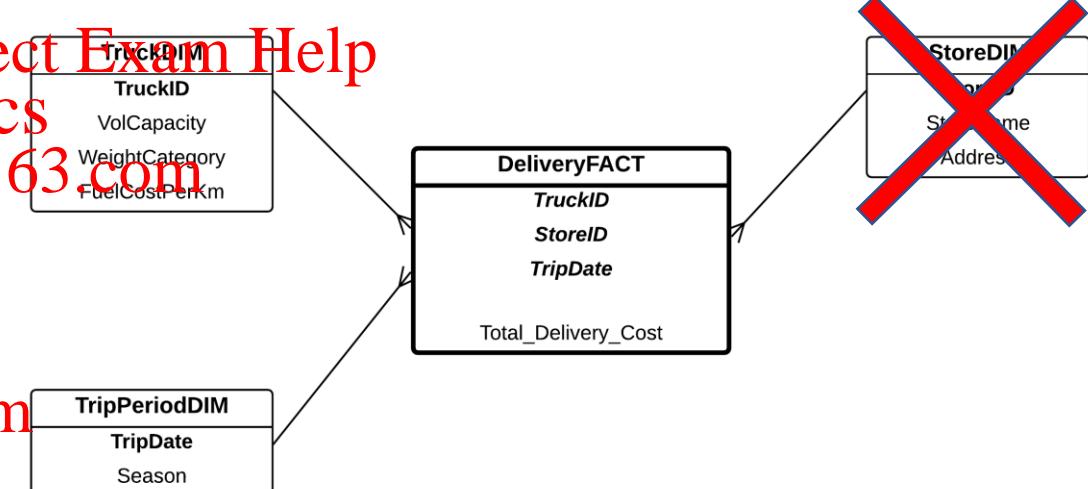
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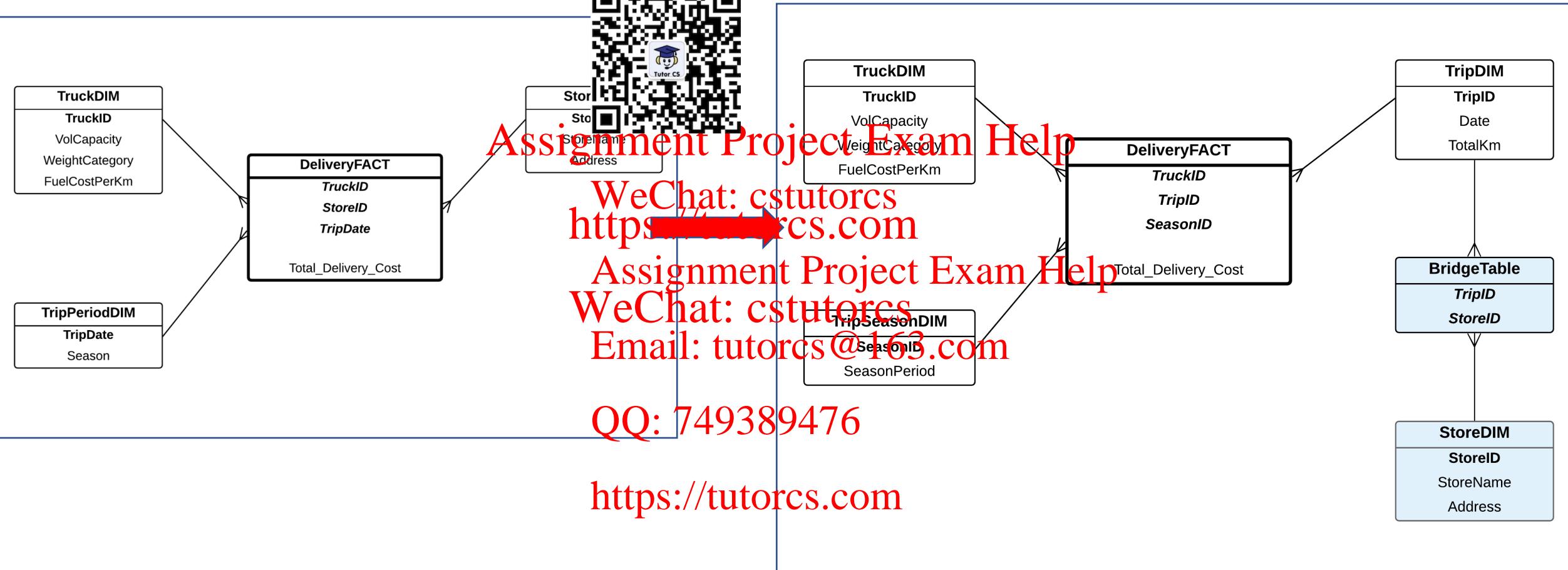
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# Case Study #2 – A Truck Delivery Case Study

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## Solution Model 1 – Using a Bridge Table



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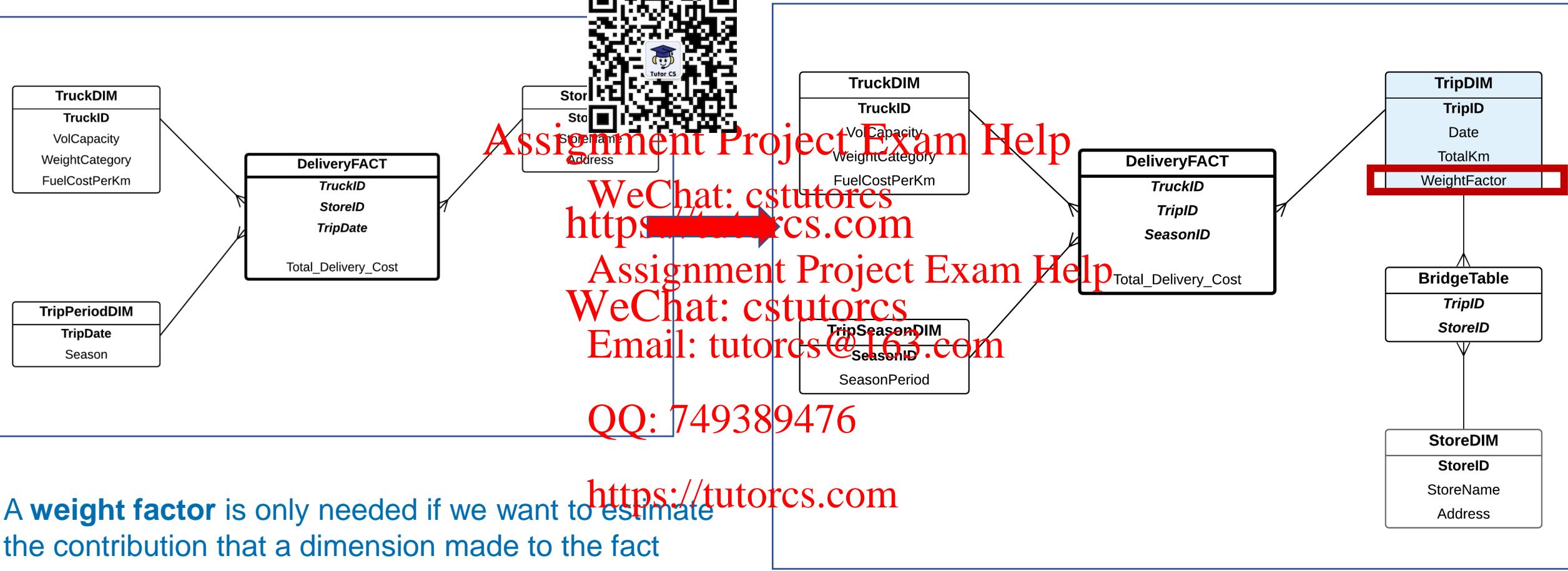
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Solution Model 2 – add a Weight Factor attribute



A **weight factor** is only needed if we want to estimate the contribution that a dimension made to the fact

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(a) Trip Dimension Table

TripID	Date	TotalKm	Weight
Trip1	14-Apr-2018	370	0.2
Trip2	14-Apr-2018	570	0.3
...	...	...	...



(b) Bridge Table

TripID	StoreID
Trip1	M1
Trip1	M2
Trip1	M4
Trip1	M3
Trip1	M8
Trip2	M4
Trip2	M1
Trip2	M2
...	...

(c) Store Table

StoreID	StoreName	Address
M1	MyStore City	Melbourne
M2	MyStore Chaddy	Chadstone
M3	MyStore HiPoint	High Point
M4	MyStore Donc	Dorcaster
M5	MyStore North	Northland
M6	MyStore South	Southland
M7	MyStore East	Eastland
M8	MyStore Knox	Knox
...	...	

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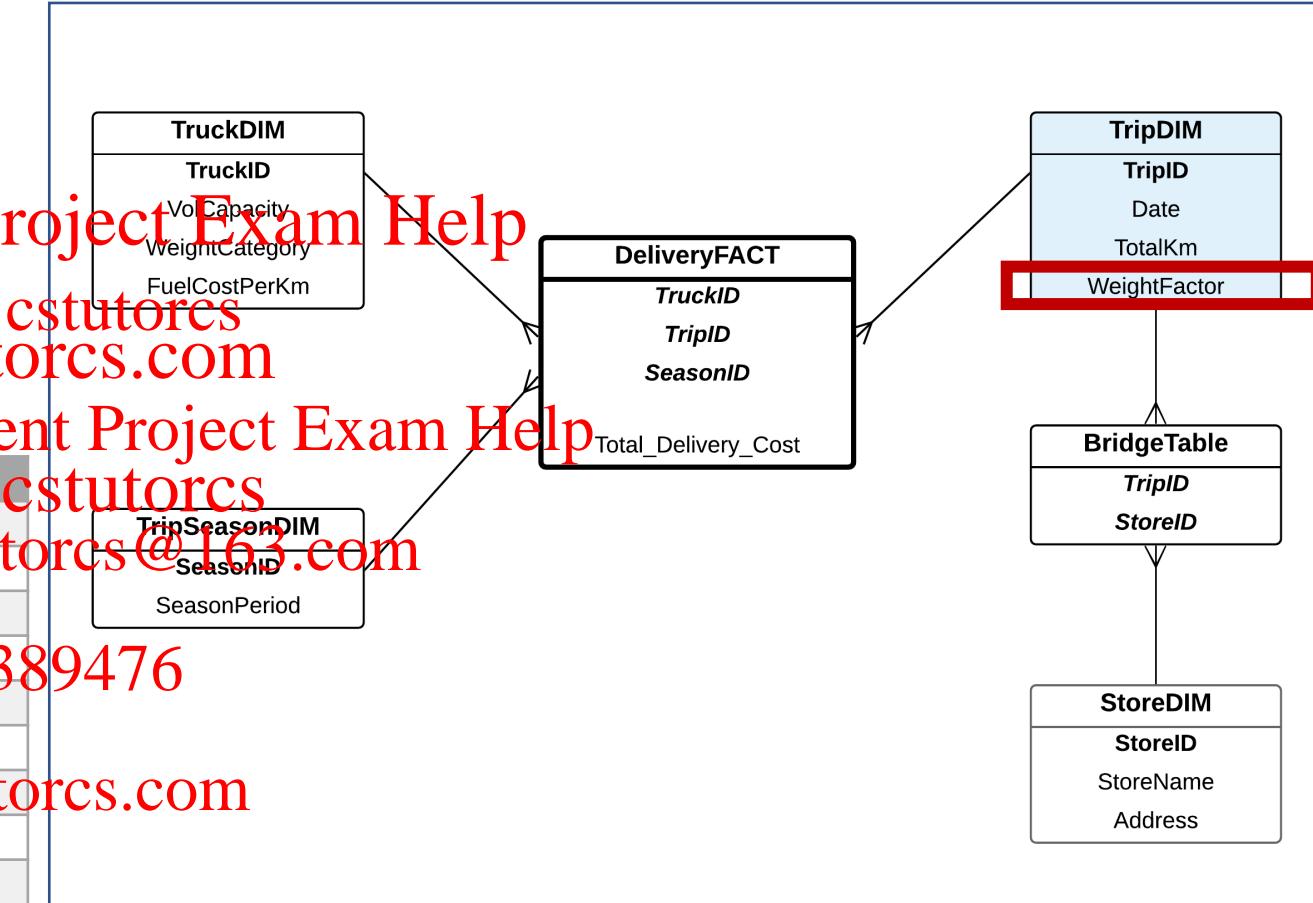
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- To create Trip Dimension:

- create table TripDi

```
select T.TripID, T.TripDate, T.TotalKm,  
       1.0/count(*) as weightFactor  
from Trip T, Destination D  
where T.TripID = D.TripID  
group by T.tripid, T.tripdate, T.totalkm;
```



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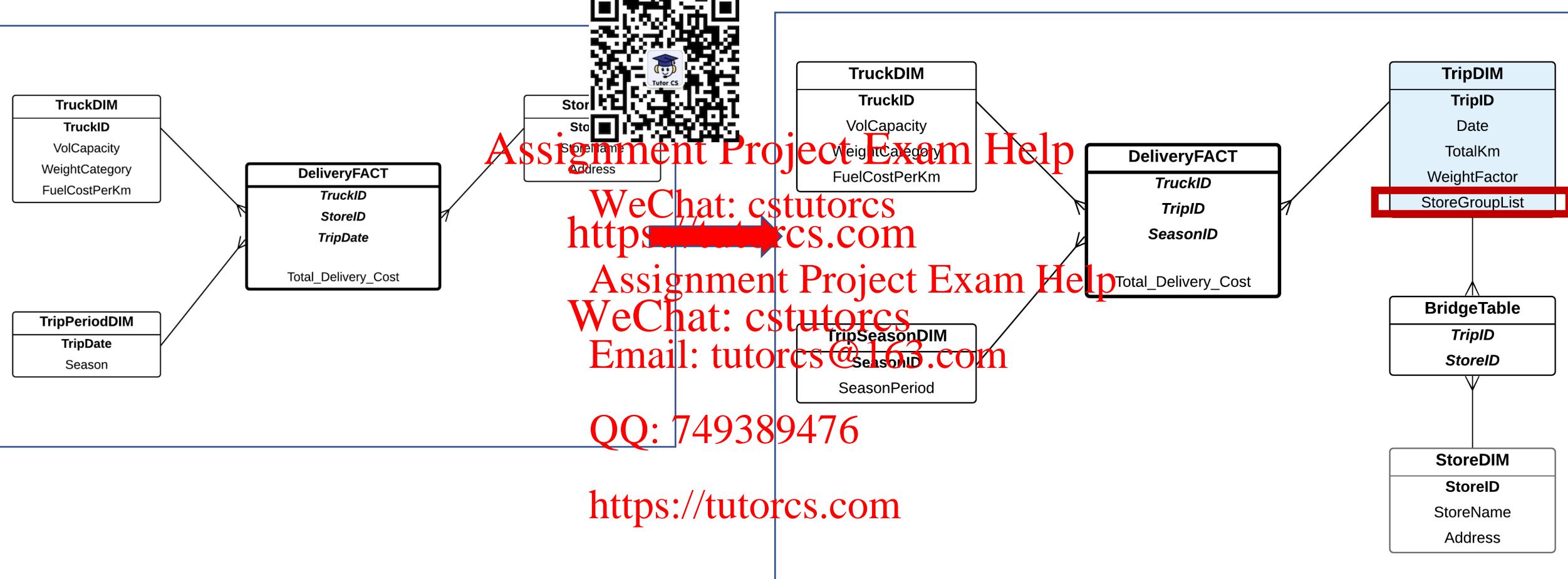
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Solution Model 3 – a List Aggregate version



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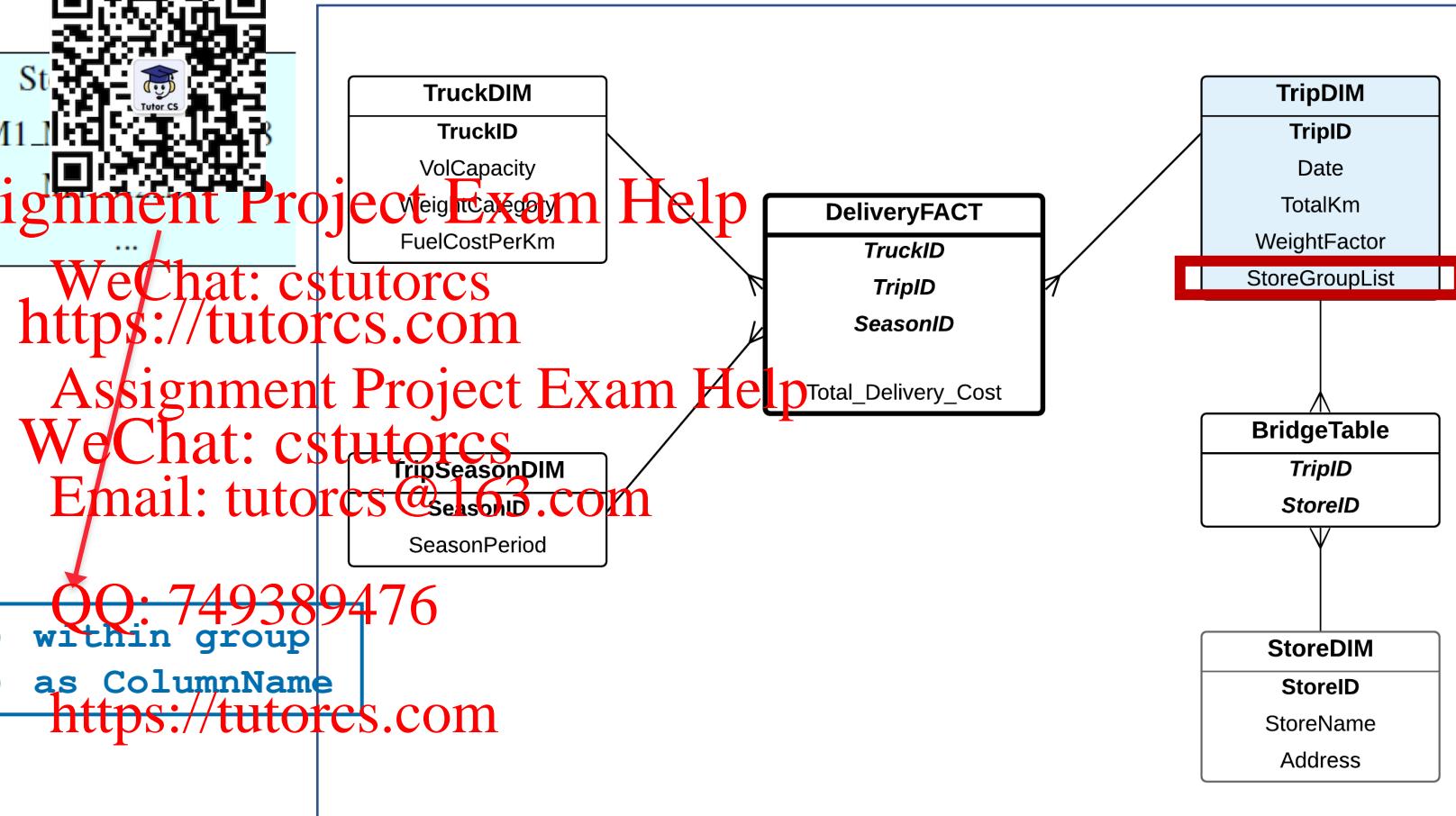
(a) Trip Dimension Table

TripID	Date	TotalKm	WeightFactor	St
Trip1	14-Apr-2018	370	0.20	M1_L1
Trip2	14-Apr-2018	570	0.33	M1_L2
...	...	...	...	...



(b) Bridge Table

TripID	StoreID
Trip1	M1
Trip1	M2
Trip1	M4
Trip1	M3
Trip1	M8
Trip2	M4
Trip2	M1
Trip2	M2
...	...



# Case Study #2 – A Truck Delivery Case Study

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- To create Trip Dimension:

- create table TripDi

```
select T.TripID, T.TripDate, T.TotalKm,  
       1.0/count(D.StoreID) as weightFactor,  
       listagg(D.StoreID, ',') within group  
           (order by D.StoreID) as StoreGroupList  
from Trip T, Destination D  
where T.TripID = D.TripID  
group by T.TripID, T.TripDate, T.TotalKm;
```



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- Joining based on the *StoreGroupList* attribute in the Trip dimension table and the *StoreID* in the Store dimension table:

- ```
- select *
  from TripDim3 T, STOREDIM3 S
  where T.StoreGroupList like 'S%' || S.StoreID || '%';
```

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- Without the *StoreGroupList* attribute in the Trip dimension, we need to join three tables:

- ```
- select *
  from TripDim3 T, BridgeTable3 B, StoreDim3 S
  where T.TripID = B.TripID
    and B.StoreID = S.StoreID;
```

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# Bridge Tables – Summary

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- In principal, a Bridge Table is
  - a) When it is impossible to dimension connected directed to the Fact table, because simply there is no relationship between this dimension and the Fact table (e.g. in the Product Sales case study, it is impossible to have a direct link from SupplierDim to ProductSalesFact).
  - b) When an entity (which will become a dimension) has a many-many relationship with another entity (dimension) in the E/R schema of the operational database (e.g. Supplier and Stock has a many-many relationship).
  - c) When temporality aspect (data history) is maintained in the operational database and the bridge table can be used to accommodate the dimension that has temporal attributes (e.g. product supply history is maintained in the second snowflake schema example).



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# Bridge Tables – Summary

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- When a Bridge Table is used in a snowflake schema, there are two additional options:
  - A Weight Factor is used to calculate the contribution of a dimension in the calculation of the fact measure. Because it is only an estimate, a weight factor is optional.
  - Every snowflake schema (whether it has Weight Factor or not) can be implemented in two ways: a List Aggregate version, and a non-List Aggregate version.



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