

MONASH INFORMATION 程序代写代的概念的辅导

FIT3003 – Busines Iligence Assignment Project Exam Help and Data Warehous Cat: cstutores

Week 3b – Average in Fact

https://tutorcs.com Assignment Project Exam Help

WeChat: cstutorcs

Email: tutorcs@163.com

Semester 1, 2021 QQ: 749389476

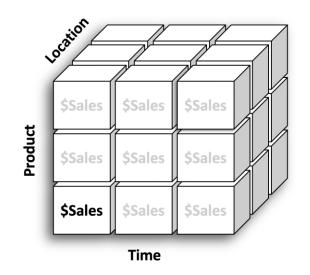
Developed by: Dr. Agnes Haryanto Agnes.Haryanto@monash.edu https://tutorcs.com

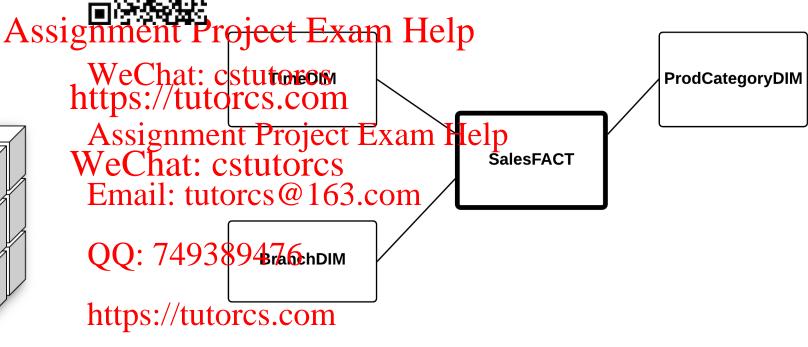
Recall – Star Schema Components

程序代写代做 CS编程辅导

There are **Three** main comp**则或证**pf the Star Schema:

- 1. Facts
- 2. Dimensions
- 3. Attributes







Recall – Fact

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- A Fact Table consists of key strom each dimension, and fact measures.
- A Fact Table is created by a firmer pration, that ip in speveral tables from the operational database. cstutores
- Fact tables are created either through TempFact or directly retrieval from the tables in the operational database.
- The fact measure itself is an aggregated and 63.com
 - In the SQL command, the fact preggy attribute in the Fact Table is created using an aggregate function, such as count or sum, and the group battoperation.

FACT DimensionID DimensionID DimensionID ... Fact_Measure Fact_Measure ...



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Unit Code	Unit Title	Semester	Student First Name	Score
IT001	Database	1		81
IT001	Database	1	/ ************************************	41
IT001	Database	1	Tutor CS.	74
IT001	Database	1		85
IT001	Database	1 Assi	igament Project	Exam Help
IT001	Database	1	Leonard : cstuto	. 75
IT001	Database	2	https://tutorcs.c	
IT001	Database	2	Andy:	oget Exam Help
IT002	Java	1		[*] NO
IT002	Java	1	WeChat: cstuto	
IT002	Java	2	Mirriam: tutores@	⁹ 463.com
IT002	Java	2	Ben 740200474	73
IT002	Java	2	Larry: 749389470	64
IT003	SAP	1	Ally	63
IT004	Network	2	https://tutorcs.c	ा ३
IT004	Network	2	Menson	52



Network

Network

IT004

IT004

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Unit Code	Unit Title	Semester	Student First Name	Score
IT001	Database	1		81
IT001	Database	1		41
IT001	Database	1	Tuter CS	74
IT001	Database	1		85 CC
IT001	Database	1 Assign	tament Project	xam Help •
IT001	Database	1	Wechat: estuto	• Z5
IT001	Database	2	ttade://tutorcs.c	
IT001	Database	2	N n dv	iect Exam Help
IT002	Java	1		1
IT002	Java	1	WeChat: estute	/1 /
IT002	Java	2	Timail: tutores@	9463.com
IT002	Java	2	Ben 740200474	73
IT002	Java	2	QQ: 749389476	64
IT003	SAP	1	Ally	63
				0.100

Menson

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52

The operational database contains:

- 9 records of Semester one
- 7 records of Semester two



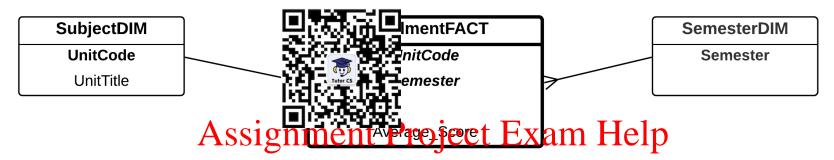
			_程序代写代做	CS编程辅导
Unit Code	Unit Title	Semester	Student First Name	Score
IT001	Database	1		81
IT001	Database	1		41
IT001	Database	1	Tutor CS	74
IT001	Database	1		85
IT001	Database	1 Assi	gament Project	Exam Help
IT001	Database	1	Wechat: cstuto	75
IT001	Database	2	httens://tutorcs.c	26 1 m
IT001	Database	2	Assignment Pro	20
IT002	Java	Т	WeChat: estuto	1 65
IT002	Java	1	IVIENSON	Δ/_
IT002	Java	2	Email: tutores@	⁹ 483.com
IT002	Java	2	Ben 740200474	73
IT002	Java	2	Lary: 149389470	64
IT003	SAP	1	Ally	63
IT004	Network	2	https://tutorcs.c	ा अ
IT004	Network	2	Menson	52

The operational database contains:

- 9 records of Semester one
- 7 records of Semester two
 - 8 records of Database Unit (6 Semester one and 2 Semester two)



程序代写代做 CS编程辅导



WeChat: cstutorcs https://tutorcs.com

(a) Fact

Unit Code	Semester	Average_Score
IT001	1	73.833
IT001	2	48
IT002	1	56
IT002	2	71.667
IT003	1	63
IT004	2	52.5

Assignment Breitstein Fram Help WeChat: cstutorcs

WeChat: cstutores
Email: tulores@ 163 com
Database

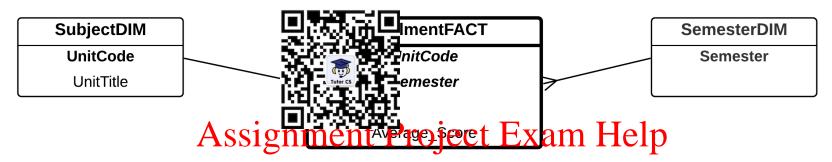
QQ: 74
17003

Network
https://tutores.com

Semester
1
2



程序代写代做 CS编程辅导



WeChat: cstutorcs https://tutorcs.com

(a) Fact

Unit Code	Semester	Average_Score
IT001	1	73.833
11001	Z	40
IT002	1	56
IT002	2	71.667
IT003	1	63
IT004	2	52.5

Assignment Bjedien Exam Help WeChat: estutores Email: tutores@ 163 com Database

QQ: 74 17003 476 SAP

IT004 Network

https://tutores.com

Semester
1
2



程序代写代做 CS编程辅导

Average Score for the Database Unit

• Semester one: (81+41+74+85+87



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(a) Fact

Unit Code	Semester	Average_Score
IT001	1	73.833
11001	Z	40
IT002	1	56
IT002	2	71.667
IT003	1	63
IT004	2	52.5

Assignment by Chat: cstutorcs
Email: thorcs @ 163 com
Database

QQ: 74
T003

Assignment Help
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https://tutorcs.com

Semester
1
2



程序代写代做 CS编程辅导

Average Score for the Database Unit

Semester one: (81+41+74+85+87

Semester two: (64+32)/2 = 48

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(a) Fact

Unit Code	Semester	Average_Score
IT001	1	73.833
IT001	2	48
11002	1	56
IT002	2	71.667
IT003	1	63
IT004	2	52.5

Assignment Breit Exam Help WeChat: cstutorcs

Email: tutores@

Java

Network

Semester
1
2



程序代写代做 CS编程辅导

Average Score for the Database Unit

Semester one: (81+41+74+85+87

Semester two: (64+32)/2 = 48

These are actually incorrect!

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(a) Fact

Unit Code	Semester	Average_Score
IT001	1	73.833
IT001	2	48
IT002	1	56
IT002	2	71.667
IT003	1	63
IT004	2	52.5

Assignment Breitstein Exam Help WeChat: cstutorcs

Java SAP

Network

(c) Semester Dimension

Semester



程序代写代做 CS编程辅导

Query: Calculate Average Score for the Land Passe Unit:

• (73.833 + 48) / 2 = 60.9165

The SQL command:

select avg (AverAssignment Project Exam Help

from EnrolmentFact

where UnitCode = 'Interes://tutor

(a) Fact

Unit Code	Semester	Average_Score
IT001	1	73.833
IT001	2	48
IT002	1	56
IT002	2	71.667
IT003	1	63
IT004	2	52.5

Assignment Bielierith Exam Help

WeCha	t: cstute	Orcs Libit Title
Email:	tutores @	Database
00.74	JT002 938947	Java
QQ: 74	170034/	SAP
1 44 //	IT004 tutorcs.c	Network
https://	tutores.e	com

Semester
1
2



程序代写代做 CS编程辅导

Query: Calculate Average Score for the think in the Unit.

(b) Operational Database

87

75

78

73

Student First Name

Calculation using **Fact**:

(73.833 + 48) / 2 = 60.9165

IT001	Database	1	Mirriam	81
IT001	Database	1	Allan	41
ptod4Xa	Malabasp	1	Ben	74
ITQQ1	Database	1	Kate	85

Larry

Semester

Calculation based on the Operational Matabase: cstu (7001)

(81+41+74+85+87+75+64+32) / 8 https://

539 / 8 = **67.375**

Database Database

Unit Code Unit Title

Leonard Juan

Assignment Project **Examallelp** 64 WeChat: cstuttores **Database** Andy 32

Email: tutorcs (2012) Ally 65 **Cyana IT002** Java Menson 47

QQ: 7493894 17002 Mirriam Java Java Ben

IT002 Java 64 Larry https://tutorcs.com SAP Ally 63

IT004 Network 53 Juan **IT004** Network Menson 52

(a) Fact

Unit Code	Semester	Average_Score
IT001	1	73.833
IT001	2	48
IT002	1	56
IT002	2	71.667
IT003	1	63
IT004	2	52.5



程序代写代做 CS编程辅导

Query: Calculate <u>Average Score</u> for the <u>Third</u> it in both <u>Semesters</u>.

Average_Score

73.833

71.667

48

56

(b) Operational Database

Score

85

65

47

78

73

64

63

53 52

University

Student First Name

Calculation using **Fact**:

(a) Fact

IT001

IT001

IT002

IT002

Unit Code

(56+71.667) / 2 = 63.833

IT001 Database 81 Mirriam IT001 Database Allan 41 Projector xamatalesp Ben 74

Kate

Ally

Ben

Menson

Mirriam

Semester

Calculation based on the Operational Matabase: cstu

(65+47+78+73+64) / 5 = 65.4

Semester

Database Larry 87 Database 75 Leonard

Unit Title

Database

Assignment Project Juan 64 WeChat: cstutores Databaca Andy 22

Email: tutorcs © 4263 Cyana

IT002

₩02

T002

Unit Code

00.740290

htt

QQ:	/	4	9	J	0	

tps://tutor	IT002	Java	2	Larry
	5440031	SAP	1	Ally
	IT004	Network	2	luan

Java

Java

Java

程序代写代做 CS编程辅导

Query: Calculate Average Score for Selection

(b) Operational Database

Score

81

41

74

85

87

75

64

22

65

47

78

73

64

63

53

52

Student First Name

Calculation using **Fact**:

(73.833+56+63) / 3 = 64.287

IT001 egtodixa

Calculation based on the **Operational Patabase**: cstutoff:

• (81+41+74+85+87+75+65+47+63) USE 68.669 TCS 17001

Assignment Project

Database Database

Unit Title

Database

Database

Database

Database

Larry

Semester

Leonard

Mirriam

Allan

Ben

Kate

Evamately WeChat: cstuttores Database.

Unit Code

IT001

Email: tutorcs (201263) **IT002**

Cyana

Ally Menson

Juan

Andy

QQ: 7493894 17002

Java Java

Java

Mirriam Ben Larry

Ally

https://tutorcs.com

IT002 Java SAP

2 **IT004** Network Juan **IT004** Network

Menson

(a) Fact

Unit Code	Semester	Average_Score
IT001	1	73.833
IT001	2	48
IT002	1	56
IT002	2	71.667
IT003	1	63
IT004	2	52.5



程序代写代做 CS编程辅导

Query: Calculate Average Score for Selection S

(b) Operational Database

Score

81

41

74

85

87

75

65

47

78

73

64

63

53

52

Calculation using **Fact**:

(48+71.667+52.5) / 3 = **57.389** Assignt

Projectod Xamadalasp

Calculation based on the **Operational Patabase**: cstutores (64+32+78+73+64+53+53) / 7 = 59.4286 / tutores [1001]

IT002

IT004

Unit Code

IT001

IT001

Database

Unit Title

Database

Database

Database

Database

Semester

Larry

Student First Name

Leonard

Mirriam

Allan

Ben

Kate

Examately 64 Juan Andy 32

Database **Cyana**

Ally Menson

2 Mirriam

Ben

Larry

Allv

2

Juan Menson

(a) Fact

Unit Code	Semester	Average_Score
IT001	1	73.833
IT001	2	48
IT002	1	56
IT002	2	71.667
IT003	1	63
IT004	2	52.5

QQ: 7493894 17002

https://tutorcs.pod31

Assignment Project

Email: tutorcs (2013).

WeChat: cstuttores

IT002 Java

SAP **IT004**

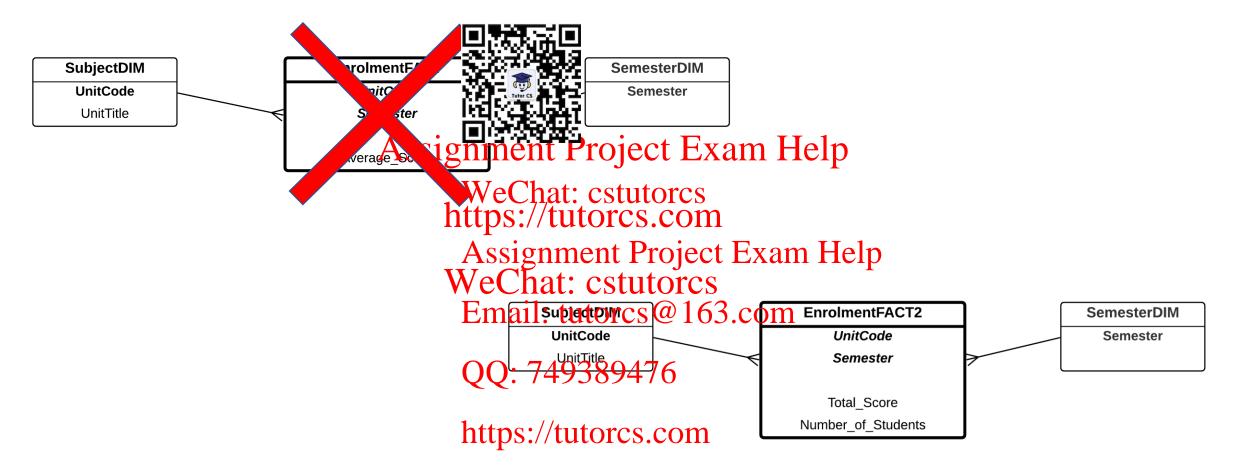
Java

Java Java

Network

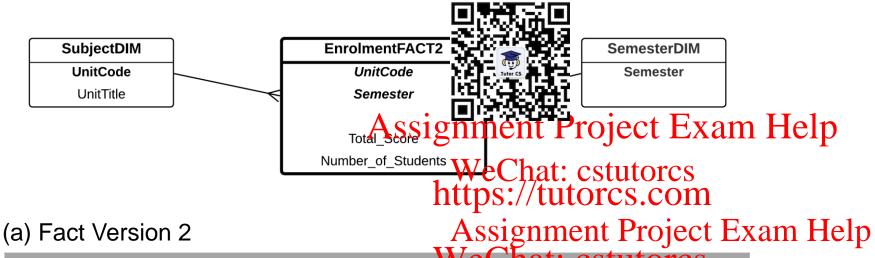
Network

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程序代写代做 CS编程辅导



(b'	Sub	iect	Dime	ension
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Unit Code	Unit Title
IT001	Database
IT002	Java
IT003	SAP
IT004	Network

Unit Code	Semester	Total_Score	VeChat: cstutorcs _{its} Email: tutorcs@163.com
IT001	1	443	Email: tutores@163.com
IT001	2	96	QQ: 749389476
IT002	1	112	QQ. 749369470
IT002	2	215	https://tutores.com
IT003	1	63	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IT004	2	105	2

Semester
1
2



程序代写代做 CS编程辅导



(a) Fact Version 2

Assignment Project Exams Helpt sum (Total_Score) /

Unit Code	Semester	Total_Score	WeChat; cstutorcs _{its} Email: tutorcs@163.com
IT001	1	443	Email: tutores@163.com
IT001	2	96	QQ: 749389476
IT002	1	112	QQ. 749369470
IT002	2	215	https://tutorcs.com
IT003	1	63	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IT004	2	105	2

sum (Number_of_Students)
as Average_Score
from EnrolmentFact2
where UnitCode = 'IT001';



程序代写代做 CS编程辅导

- The problem of Average in problem.
- is known as the Average of an Average
- https://tutorcs.com
- Assignment Project Exam Help Hence, it is not desirable to have an average measure in the fact.
 - Exceptional case: when the dimensions (e.g. Determinant Dimensions OQ: 749389476

https://tutorcs.com



Min & Max in the Fact

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- If Average should not be use fact, how about Min or Max?
 - > Yes, we can.
 - Because Max of Max is always a global Max and Min of Min is always a global Min.

WeChat: cstutorcs https://tutorcs.com

(a) Fact

Assignment Project Exam Help

Ucode	Semester	Min_Score	Max	WeCha	t: cs	tydycerubje	ct Dimension
IT001	1	41	87	Email:	tutor	CS (a) 163 Unit Code	.com Unit Title
IT001	2	32	64		000	IT001	Database
IT002	1	47	65	QQ: 74	19385	1T002	Java
IT002	2	64	78			IT003	SAP
IT003	1	63	63	https://	tutor	c s.604 m	Network
IT004	2	52	53				

Semester
1
2



Min & Max in the Fact

程序代写代做 CS编程辅导

Database Unit.

- Query: Find the Maximum S
 - Max of {87, 64} is **87**.
- The SQL command: Assignment Project Exam Help

select max(Max_Score) wechat.cstutorcs
where UnitCode = 'ITO https://tutorcs.com

(a) Fact Assignment Project Exam Help

_	(3.)			7	\sim	_	J	I .
ľ	Ucode	Semester	Min_Score	Max	weCha	: CS1	(th)Osiubje	ct Dimension
	IT001	1	41	87	Email:	utor	Unit Code	.com Unit Title
	IT001	2	32	64	00 74	0200	IT001	Database
	11002	1	47	65	QQ: /4	9389	11002	Java
	IT002	2	64	78	1		IT003	SAP
	IT003	1	63	63	https://	tutore	C§1.604M	Network
	IT004	2	52	53				

Semester
1
2



Min & Max in the Fact

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- Query: Find the Minimum Selection at abase Unit.
 - Min of {41, 32} is **32**.
- The SQL command: Assignment Project Exam Help

select min(Min_Score) wechat.cstutorcs
where UnitCode = 'ITO https://tutorcs.com

(a) Fact Assignment Project Exam Help

U	code	Semester	Min_Score	Maxyecha	: cstudosiusie
IT	001	1	41	87 Email:	utores@163
IT	001	2	32	64	IT001
П	002	1	47	65 QQ: /4	-9389 11 602
IT	002	2	64	78	IT003
IT	003	1	63	63 https://	tutorc s.604 m
IT	004	2	52	53	<u> </u>

CSt(b) CST(b) ect Dimension

itor	cs@163.	com Unit Title
200	IT001 11002	Database
385	ήτ <mark>0</mark> 02	Java
	IT003	SAP
tore	CS.660M	Network

Semester
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2



Average in the Fact – Conclusion

程序代写代做 CS编程辅导

- Average in the Fact is not leader. although technically it satisfies the two criteria of the fact (e.g. must merical and aggregate value).
- Min and Max in the Fact spine the Fact spine Min and Max Score are valid fact measures (e.g. they are numerical and aggregated values).
- In general, count and sum are more common.
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