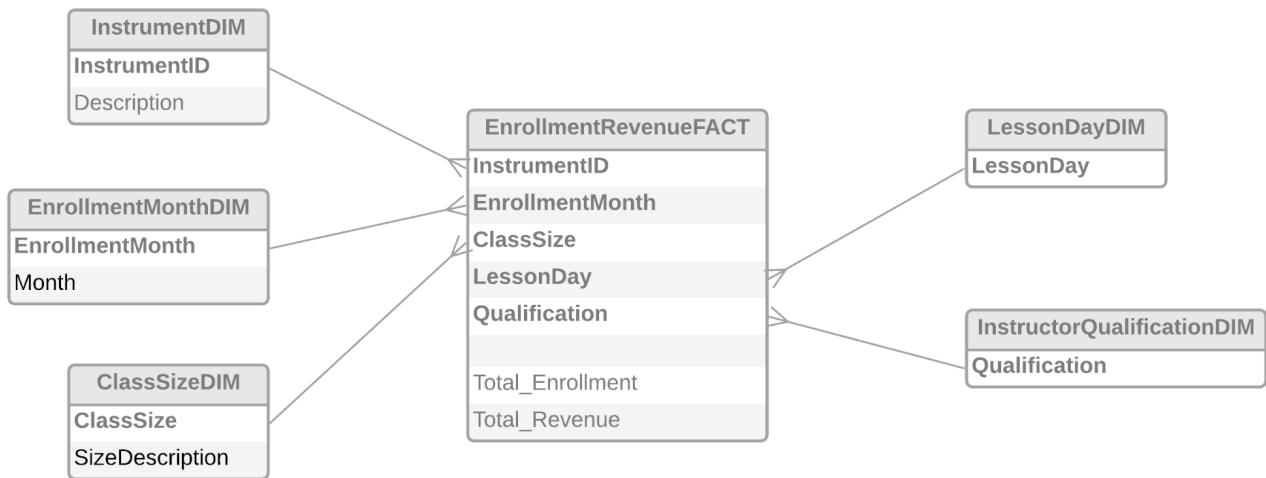


FIT3003 S2 2021

Take Home Test

Task 1

Star schema diagram for Gracie Music Learning Centre



Task 2

Two-Column Table Methodology

InstrumentDIM

Instrument ID	Description	Total Enrollment	Total Revenue
INS100	Piano	23	2351
INS200	Ukelele	12	1284
INS300	Acoustic Guitar	8	826

EnrollmentMonthDIM

Enrollment Month	Month	Total Enrollment	Total Revenue
1	January	23	2351
2	February	12	1284
3	March	8	826

ClassSizeDIM

Class Size	Size Description	Total Enrollment	Total Revenue
Small	<= 3 students	23	2351
Medium	4-6 students	12	1284
Big	>	8	826

LessonDayDIM

Lesson Day	Total Enrollment	Total Revenue
Weekdays	23	2351
Weekends	8	826

InstructorQualificationDIM

Qualification	Total Enrollment	Total Revenue
Diploma	23	2351
Bachelor	12	1284

Task 3

SQL commands to create the fact and dimension tables

Refer to "task3.sql" file

InstrumentDIM

	INSTRUMENTID	DESCRIPTION
1	INS100	Piano
2	INS200	Ukelele
3	INS300	Acoustic Guitar
4	INS400	Violin
5	INS500	Harp
6	INS600	Jazz Drum

EnrollmentMonthDIM

	ENROLLMENTMONTH
1	June
2	May

ClassSizeDIM

	CLASSSIZECATEGORY	CATEGORYDESCRIPTION
1	Small	Less than or equal 3 students
2	Medium	Between 4-6 students
3	Big	More than 6 students
4	Small	Less than or equal 3 students
5	Medium	Between 4-6 students
6	Big	More than 6 students

LessonDayDIM

LESSONDAY
1 Weekdays
2 Weekends

InstructorQualificationDIM

QUALIFICATION
1 AMEB
2 Diploma
3 Bachelor
4 Advanced Diploma

EnrollmentRevenueFact

	INSTRUMENTID	ENROLLMENTMONTH	CLASSSIZECATEGORY	LESSONDAY	QUALIFICATION	TOTAL_ENROLLMENT	TOTAL_REVENUE
1	INS300	May	Small	Weekends	Advanced Diploma	1	240
2	INS300	June	Medium	Weekdays	Diploma	1	250
3	INS500	June	Small	Weekdays	Advanced Diploma	1	300
4	INS100	May	Small	Weekdays	Bachelor	1	300
5	INS500	May	Small	Weekdays	Advanced Diploma	1	160
6	INS400	June	Small	Weekdays	AMEB	1	300
7	INS100	May	Small	Weekdays	Diploma	1	120
8	INS300	May	Medium	Weekdays	Diploma	1	250
9	INS200	May	Medium	Weekends	Diploma	1	320
10	INS200	June	Medium	Weekdays	Diploma	1	320
11	INS400	June	Small	Weekends	Bachelor	1	150
12	INS300	May	Small	Weekends	Advanced Diploma	1	100
13	INS100	May	Medium	Weekdays	AMEB	1	300
14	INS400	May	Small	Weekdays	AMEB	1	300
15	INS200	June	Big	Weekends	Diploma	1	320
16	INS100	May	Small	Weekends	Bachelor	1	150
17	INS400	May	Medium	Weekends	AMEB	1	400
18	INS400	May	Small	Weekdays	Bachelor	1	150

Task 4a

28007158

Yen Ting (Andy) Lin

Task 4a

Refer to "task4a.sql" file

NEW_ENROLLMENT_MAY_VIOLIN		
1		3

Task 4b

Refer to "task4a.sql" file

ENROLLMENTMONTH	LESSONDAY	SUM_OF_REVENUE
June	Weekdays	1710
June	Weekends	1170
May	Weekdays	2410
May	Weekends	1810