Question 1 – Assume we are operating with the following tables for a Sporting Competition Database

Attend	ance (<u>(Tournament,</u>	Venue,	<u>Event</u> ,	Attend	lance)
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Tournament (<u>Tournament</u>, TournamentType, TournamentOrganiser)

Tournament example: 2000 Olympics TournamentType example: Olympics TournamentOrganiser example: IOC

Venue (<u>Venue</u>, Suburb, City, Country)

Event (<u>Event</u>, SubSport, Sport)

Event example: 100-meter Sprint semi-final

SubSport example: 100-meter Sprint

Sport example: Athletics

a)	Construct	the Fact	Table	of the	database
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b) Construct a Star Schema of the database
c) Construct a Snowflake Schema of the database
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(assume we are operating with the Star Schema). Answer all the following questions with this query as the baseline [Assume the query is reset to this form before every new question]: SELECT T.TournamentType, V.City, E.SubSport, SUM(A.Attendance) FROM Attendance A, Tournament T, Venue V, Event E WHERE A.Tournament = T.Tournament AND A.Venue = V.Venue AND A.Event = E.Event GROUP BY T.TournamentType, V.City, E.SubSport a) Write a query to perform a Roll-Up on the Venue b) Write a query to perform a Drill-Down on the Tournament

Question 2 – Assume we are operating in the same database in the previous question

c)	Write a query to perform a Slice where the Sub Sport is 400-meter Freestyle
d)	Write a query to perform a Dice where the Sub Sport is 200-meter Sprint and the
	Tournament Type is the Olympics