National Institute of Technology Calicut
Department of Computer Science and Engineering

CS3095D DATABASE MANAGEMENT SYSTEMS LABORATORY
S5/S7 B.Tech- Monsoon Semester 2022
Exercise-8
GraphDB

1) A warehouse stocks a wide variety of books. Consider using a database to manage online book stores. There are entities like Author, Publisher, and Book in it. Author has attributes like name, address and url. Publisher has attributes like name, address, phone no. and url. Book has attributes like isbn, title, author, publisher, year and price.

    a) Write a CQL query to create three tables Book, Author and Publisher. Create a relationship between Book - written _by -> Author and Book - published_by -> Publisher.   (0.75)

Book

ISBN	Title	Author	Publisher	Year	Price (in $)
5477	Algo	Cormen	The MIT Press	1989	50
5642	DBMS	Korth	McGraw-Hill	2019	45
4768	TOC	Ullman	Addison-Wesley	1979	41
5346	CD	Ullman	Addison-Wesley	1986	40

Author

Name	Address	URL
Cormen	MIT	abc
Korth	Texas	def
Ullman	Stanford	ghi

Publisher

Name	City	Phone No.	URL
The MIT Press	Cambridge	4354	pqr
McGraw-Hill	Boston	6456	jkl
Addison-Wesley	Boston	5645	opq

    b) Display the name of the author and corresponding number of books written by them. (0.25)

    c) Display the total cost of all the books. (0.25)

    d) Update the url for the author 'Korth' from 'def' to 'stu'. (0.25)

    e) Display the cheapest book name. (0.5)

    f) Name the publisher who has published the maximum number of books. (0.5)

    g) Give the name of the author who was the first to publish the book. (0.5)