This is a rough work document that I used to write down what I was doing and going to do as I went along creating the graph database.

Creates course

CREATE (n:collegeCourse {courseName: "BSc Computing in Software Development"}) return n

Creates days

CREATE (d:days {dayName: "Monday"}) return d

----Then do this with all the days of the week

Creates a relationship between the nodes

MATCH (n:collegeCourse { courseName: "BSc Computing in Software Development"}), (d:days { dayName: "Monday"}) CREATE (n)-[:Days]->(d)

Use to delete

MATCH (n:collegeCourse) DELETE n

Create group nodes

CREATE (g:groups {groupName: "GroupA"}) return g

----Then do this with all groups

create relationship between days and groups

MATCH (d:days { dayName: "Monday"}), (g:groups { groupName: "GroupA"}) CREATE (d)-[:groupsOnDay]->(g)

Delete a relationship

MATCH (:groups {Name: "GroupA"})-[g:groupsPerDay]-(:days {Name: "Friday"})

DELETE g

Create subjects

Create group nodes

CREATE (s:subjects {subjectName: "Graph Theory"}) return s

----Then do this with all subjects

create relationship between days and subjects

MATCH (d:days { dayName: "Monday"}), (s:subjects {subjectName: "Graph Theory"}) CREATE (d)-[:subjectsOnDay]->(s)

Do this for all days and subjects as fit

create relationship between groups and subjects

MATCH (g:groups{ groupName: "GroupA"}), (s:subjects {subjectName: "Graph Theory"}) CREATE (g)-[:subjectForgroups]->(s)

Do this for all groups and subjects as fit

Create room nodes

CREATE (r:rooms {roomNo: "Room998"}) return r

----Then do this with all room

How to delete a node

MATCH (r:rooms {roomNo: "481"}) DELETE r

Create lecturers

CREATE (l:lecturer{lecturer: "Ian"}) return l

----Then do this with all lecturers

Create relationship between lecturer and subject

MATCH (l:lecturers{lecturer: "Ian McLoughlin"}), (s:subjects {subjectName: "Graph Theory"}) CREATE (l)-[:lecturerforSubject]->(s)

Do this for all lecturers and subjects as fit

Create time slot nodes

CREATE (t:timeslots {time: "9:00-10:00"}) return t

----Then do this with all room

Create relationship between time and subject

MATCH (t:timeslots {time: "9:00-10:00"}) ,(s:subjects {subjectName: "Graph Theory"}) CREATE (t)-[:timeforSubject]->(s)

Do this for all lecturers and subjects as fit

Create relationship between time and day

MATCH (t:timeslots {time: "9:00-10:00"}) ,(d:days { dayName: "Monday"), CREATE (t)-[:timeodDay]->(d)

Do this for all days and subjects as fit

Create between time and lecturers

MATCH (t:timeslots {time: "9:00-10:00"}) ,(l:lecturers { lecturer: "Ian McLoughlin"), CREATE (t)-[:timeforLect]->(d)

Do this for all times as fit

Create relationship between rooms and times

Create relationship between rooms and days

Create relationship between rooms and lecturers

Create time and group relationship

Create relationships between rooms and subjects

MATCH (r:rooms{ roomNo: "145"}), (s:subjects {subjectName: "Graph Theory"}) CREATE (r)-[:roomForSubject]->(s)

Do this for all groups and subjects as fit