

ABC UNIVERSITY DATABASE

ER DIAGRAM
SQL DATABASE

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BSCS-1

Entities and Attributes of ABC University

Campus

- Campus Name
- Address
- Distance from the City Center
- Bus running to the City
- Club

Club

- Name of Club
- Building Location
- Phone Number
- Sports Offered

Faculty

- Faculty Name
- Dean
- Building

School

- Faculty Name
- School Name
- Building
- Campus Name

Programme

- School
- Programme Code
- Title
- Level
- Duration
- Number of Electives

Course

- Course code
- Title
- Number of Prerequisites

Students

- Student ID
- Name
- Program Code
- Number of Electives
- Birthday
- Year Enrolled

Course Taken

- Course Code
- Student ID
- Grade
- Year
- Term

Lecturer

- Lecturer ID
- Name
- School
- Title
- Office room
- Supervisor

Committee

- Committee Title
- Schedule of Meetings
- Lecturer ID

Relationship of the Entities of ABC University

A **Campus** has one **club** (*one-to-one*).

A Campus is consist of a number of Faculty (*one-to-many*).

A **Faculty** is divided into a number of schools (*one-to-many*).

A **School** can offer a number of programmes (*one-to-many*).

Each **Programme** comprises several courses, different programmes have different **Courses** (*many-to-many*).

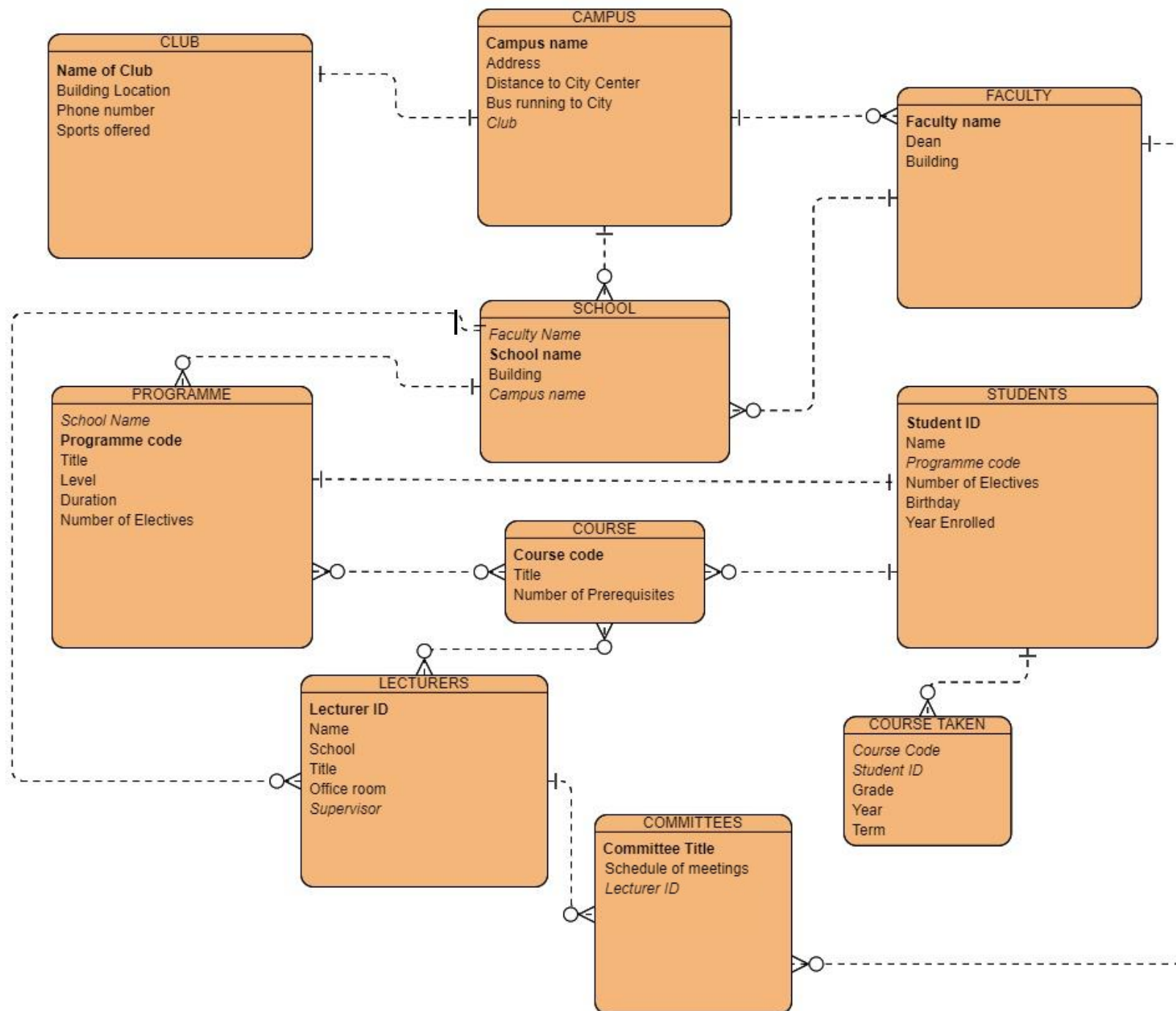
A **student** is enrolled in a single program (*one-to-one*) which involves a fixed core of courses (*one-to many*).

A **lecturer** is allowed to work for one school only (*one-to-many*).

A lecturer can teach many different courses. A course may also have been taught by many different lecturers (*many-to-many*).

Each Faculty have a number of **Committee** (*one to many*).

A lecturer may be a member of several committees (*one-to-many*).



Campus Entity



ABC University (SQLite v3.20.1)

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Execute Share main.sql STDIN

Result

```
1 BEGIN TRANSACTION;
2
3 /*=====Campus TABLE*/
4
5 CREATE TABLE Campus(
6   CampusName text,
7   Address text,
8   Distance int,
9   Bus text,
10  ClubName text,
11  PRIMARY KEY (CampusName),
12  FOREIGN KEY (ClubName) REFERENCES Club (ClubName)
13 );
14
15
16 INSERT INTO Campus VALUES('Middleton','Philadelphia', 62, 'Greyhound busses', 'A.D. Club');
17 INSERT INTO Campus VALUES('Columbia','New York', 5, 'MTA busses', 'Delphic Club');
18 INSERT INTO Campus VALUES('Brown','Rhode Island', 26, 'Surface busses', 'Fly Club');
19 INSERT INTO Campus VALUES('Rochester','New York', 8, 'MTA busses', 'Owl Club');
20 INSERT INTO Campus VALUES('Yale', 'Conneticut', 7, 'Surface busses', 'Phoenix S.K. Club');
21 INSERT INTO Campus VALUES('Princeton', 'New Jersey', 10, 'MTA busses', 'Porcellian Club');
22 INSERT INTO Campus VALUES('Harvard', 'Massachusetts', 56, 'MTA busses', 'Fox Club');
23 INSERT INTO Campus VALUES('Fordham', 'New York', 17, 'Surface busses', 'Sigma Alpha Epsilon Club');
24 INSERT INTO Campus VALUES('Dartmouth', 'New Hampshire', 9, 'MTA busses', 'Spee Club');
25 INSERT INTO Campus VALUES('Cornell', 'New York', 45, 'MTA busses', 'Delta Gamma Club');
26
27 /* QUERIES*/
28 SELECT * FROM Campus;
29 SELECT CampusName FROM Campus WHERE Bus = 'MTA busses';
30 SELECT * FROM Campus WHERE Address = 'New York';
31 SELECT CampusName FROM Campus WHERE Distance > 10;
32 SELECT CampusName, Address, Bus FROM Campus;
33
34
35
```

```
$sqlite3 database.sdb < main.sql
Middleton|Philadelphia|62|Greyhound busses|A.D. Club
Columbia|New York|5|MTA busses|Delphic Club
Brown|Rhode Island|26|Surface busses|Fly Club
Rochester|New York|8|MTA busses|Owl Club
Yale|Conneticut|7|Surface busses|Phoenix S.K. Club
Princeton|New Jersey|10|MTA busses|Porcellian Club
Harvard|Massachusetts|56|MTA busses|Fox Club
Fordham|New York|17|Surface busses|Sigma Alpha Epsilon Club
Dartmouth|New Hampshire|9|MTA busses|Spee Club
Cornell|New York|45|MTA busses|Delta Gamma Club
Columbia
Rochester
Princeton
Harvard
Dartmouth
Cornell
Columbia|New York|5|MTA busses|Delphic Club
Rochester|New York|8|MTA busses|Owl Club
Fordham|New York|17|Surface busses|Sigma Alpha Epsilon Club
Cornell|New York|45|MTA busses|Delta Gamma Club
Middleton
Brown
Harvard
Fordham
Cornell
Middleton|Philadelphia|Greyhound busses
Columbia|New York|MTA busses
Brown|Rhode Island|Surface busses
Rochester|New York|MTA busses
Yale|Conneticut|Surface busses
Princeton|New Jersey|MTA busses
Harvard|Massachusetts|MTA busses
Fordham|New York|Surface busses
Dartmouth|New Hampshire|MTA busses
Cornell|New York|MTA busses
```

Execute Share main.sql STDIN

```

300
301
302 /*=====Club TABLE*/
303
304 CREATE TABLE Club(
305     ClubName text,
306     ClubBlg text,
307     PhoneNo varchar (8),
308     SportsOffered text,
309     PRIMARY KEY (ClubName)
310 );
311
312
313 INSERT INTO Club VALUES('A.D. Club', 'One Middleton', 'loc. 357', 'Baseball, Football');
314 INSERT INTO Club VALUES('Delphic Club', 'Weldboathouse', 'loc. 534', 'Volleyball, Basketball');
315 INSERT INTO Club VALUES('Fly Club', 'Memorial Hall', 'loc. 643', 'Football, Volleyball');
316 INSERT INTO Club VALUES('Owl Club', 'Lampoon', 'loc. 846', 'Basketball');
317 INSERT INTO Club VALUES('Phoenix S.K. Club', 'Widener', 'loc. 678', 'Swimming, Football');
318 INSERT INTO Club VALUES('Porcellian Club', 'Union Hall', 'loc. 252', 'Baseball, Swimming');
319 INSERT INTO Club VALUES('Fox Club', 'Caritas building', 'loc. 698', 'Football, Basketball');
320 INSERT INTO Club VALUES('Sigma Alpha Epsilon Club', 'Commons', 'loc. 578', 'Baseball, Volleyball');
321 INSERT INTO Club VALUES('Spee Club', 'Kissam Center', 'loc. 980', 'Baseball, Football');
322 INSERT INTO Club VALUES('Delta Gamma Club', 'Alumni Hall', 'loc. 085', 'Volleyball, Swimming');
323
324
325
326 /* QUERIES*/
327
328 SELECT * FROM Club;
329 SELECT ClubName, SportsOffered FROM Club;
330 SELECT ClubName, ClubBlg FROM Club;
331 SELECT PhoneNo, ClubName FROM Club;
332 SELECT Clubname, ClubBlg, PhoneNo FROM Club;
333
334
335
336
337
338
339
340
341
342
343

```

Club Entity

Result

sqlite> database.sdb < main.sql

```

A.D. Club|One Middleton|loc. 357|Baseball, Football
Delphic Club|Weldboathouse|loc. 534|Volleyball, Basketball
Fly Club|Memorial Hall|loc. 643|Football, Volleyball
Owl Club|Lampoon|loc. 846|Basketball
Phoenix S.K. Club|Widener|loc. 678|Swimming, Football
Porcellian Club|Union Hall|loc. 252|Baseball, Swimming
Fox Club|Caritas building|loc. 698|Football, Basketball
Sigma Alpha Epsilon Club|Commons|loc. 578|Baseball, Volleyball
Spee Club|Kissam Center|loc. 980|Baseball, Football
Delta Gamma Club|Alumni Hall|loc. 085|Volleyball, Swimming
A.D. Club|Baseball, Football
Delphic Club|Volleyball, Basketball
Fly Club|Football, Volleyball
Owl Club|Basketball
Phoenix S.K. Club|Swimming, Football
Porcellian Club|Baseball, Swimming
Fox Club|Football, Basketball
Sigma Alpha Epsilon Club|Baseball, Volleyball
Spee Club|Baseball, Football
Delta Gamma Club|Volleyball, Swimming
A.D. Club|One Middleton
Delphic Club|Weldboathouse
Fly Club|Memorial Hall
Owl Club|Lampoon
Phoenix S.K. Club|Widener
Porcellian Club|Union Hall
Fox Club|Caritas building
Sigma Alpha Epsilon Club|Commons
Spee Club|Kissam Center
Delta Gamma Club|Alumni Hall
loc. 357|A.D. Club
loc. 534|Delphic Club
loc. 643|Fly Club
loc. 846|Owl Club
loc. 678|Phoenix S.K. Club
loc. 252|Porcellian Club
loc. 698|Fox Club
loc. 578|Sigma Alpha Epsilon Club
loc. 980|Spee Club
loc. 085|Delta Gamma Club
A.D. Club|One Middleton|loc. 357
Delphic Club|Weldboathouse|loc. 534
Fly Club|Memorial Hall|loc. 643
Owl Club|Lampoon|loc. 846
Phoenix S.K. Club|Widener|loc. 678
Porcellian Club|Union Hall|loc. 252
Fox Club|Caritas building|loc. 698
Sigma Alpha Epsilon Club|Commons|loc. 578
Spee Club|Kissam Center|loc. 980
Delta Gamma Club|Alumni Hall|loc. 085

```

Faculty Entity



ABC University (SQLite v3.20.1)

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Execute | Share main.sql STDIN

```
32 SELECT CampusName, Address, Bus FROM Campus;
33 */
34
35 /*=====Faculty TABLE*/
36
37 CREATE TABLE Faculty(
38   FacultyName text,
39   Dean text,
40   Building text,
41   PRIMARY KEY (FacultyName)
42 );
43
44
45 INSERT INTO Faculty VALUES('Art Faculty','Dr. Bonnie Winterbottom','One Middleton');
46 INSERT INTO Faculty VALUES('Science Faculty','Dr. Frank Delfino','Delfino Building');
47 INSERT INTO Faculty VALUES('Faculty of Law','Ms. Annalise Keating','Salazar Hall');
48 INSERT INTO Faculty VALUES('Mathematics Faculty','Ms. Laurel Castillo','Godric Commons');
49 INSERT INTO Faculty VALUES('Computer Science Faculty','Mr. Connor Walsh','Grand Hall');
50 INSERT INTO Faculty VALUES('Faculty of Medicine','Dr. Gage Gomez','Godric Commons');
51 INSERT INTO Faculty VALUES('Education Faculty','Dr. Wes Gibbins','One Middleton');
52 INSERT INTO Faculty VALUES('Research and Development Faculty','Ms. Michaela Pratt','Grand Hall');
53 INSERT INTO Faculty VALUES('Faculty of Economics','Mr. Asher Millstone','Delfino Building');
54 INSERT INTO Faculty VALUES('Faculty of Graduate Studies','Mr. Nate Lahey','Salazar Hall');
55
56
57
58
59 /* QUERIES */
60
61 SELECT * FROM Faculty;
62 SELECT FacultyName FROM Faculty WHERE Building = 'One Middleton';
63 SELECT * FROM Faculty WHERE Dean = 'Mr. Connor Walsh';
64 SELECT Dean FROM Faculty WHERE FacultyName = 'Faculty of Law';
65 SELECT * FROM Faculty WHERE Building = "Grand Hall";
66
67
68
69
70
71
72
```

Result

```
$sqlite3 database.sdb < main.sql
Art Faculty|Dr. Bonnie Winterbottom|One Middleton
Science Faculty|Dr. Frank Delfino|Delfino Building
Faculty of Law|Ms. Annalise Keating|Salazar Hall
Mathematics Faculty|Ms. Laurel Castillo|Godric Commons
Computer Science Faculty|Mr. Connor Walsh|Grand Hall
Faculty of Medicine|Dr. Gage Gomez|Godric Commons
Education Faculty|Dr. Wes Gibbins|One Middleton
Research and Development Faculty|Ms. Michaela Pratt|Grand Hall
Faculty of Economics|Mr. Asher Millstone|Delfino Building
Faculty of Graduate Studies|Mr. Nate Lahey|Salazar Hall
Art Faculty
Education Faculty
Computer Science Faculty|Mr. Connor Walsh|Grand Hall
Ms. Annalise Keating
Computer Science Faculty|Mr. Connor Walsh|Grand Hall
Research and Development Faculty|Ms. Michaela Pratt|Grand Hall
```


School Entity



ABC University (SQLite v3.20.1)

Fork Project Edit Setting Earl

Execute | Share main.sql STDIN

```
66
67
68
69
70 /*=====School TABLE*/
71
72 CREATE TABLE School(
73     CampusName text,
74     FacultyName text,
75     SchoolName text,
76     Building text,
77     PRIMARY KEY (SchoolName),
78     FOREIGN KEY (CampusName) REFERENCES Campus (CampusName)
79     FOREIGN KEY (FacultyName) REFERENCES Faculty (FacultyName)
80 );
81
82
83 INSERT INTO School VALUES('Middleton','Faculty of Law','School of Politics','One Middleton');
84 INSERT INTO School VALUES('Middleton','Faculty of Law','School of Civil Rights','One Middleton');
85 INSERT INTO School VALUES('Middleton','Faculty of Law','Constitutional School','One Middleton');
86 INSERT INTO School VALUES('Middleton','Faculty of Law','Corporate School','One Middleton');
87 INSERT INTO School VALUES('Middleton','Science Faculty','School of Physics','Assir Hall');
88 INSERT INTO School VALUES('Middleton','Science Faculty','School of Chemistry','Assir Hall');
89 INSERT INTO School VALUES('Middleton','Science Faculty','School of Astronomy','Assir Hall');
90 INSERT INTO School VALUES('Middleton','Faculty of Economics','Microeconomics School','Decartes building');
91 INSERT INTO School VALUES('Middleton','Faculty of Economics','Macroeconomics School','Decartes building');
92 INSERT INTO School VALUES('Middleton','Faculty of Medicine','School of Surgery','Maddison commons');
93
94
95
96 /* QUERIES */
97
98 SELECT * FROM School;
99 SELECT SchoolName FROM School;
100 SELECT FacultyName, SchoolName FROM School WHERE Building = 'One Middleton';
101 SELECT * FROM School WHERE FacultyName = 'Faculty of Law';
102 SELECT SchoolName FROM School WHERE FacultyName = 'Science Faculty';
103
104
105
106
107
```

Result

```
$sqlite3 database.sdb < main.sql
Middleton|Faculty of Law|School of Politics|One Middleton
Middleton|Faculty of Law|School of Civil Rights|One Middleton
Middleton|Faculty of Law|Constitutional School|One Middleton
Middleton|Faculty of Law|Corporate School|One Middleton
Middleton|Science Faculty|School of Physics|Assir Hall
Middleton|Science Faculty|School of Chemistry|Assir Hall
Middleton|Science Faculty|School of Astronomy|Assir Hall
Middleton|Faculty of Economics|Microeconomics School|Decartes building
Middleton|Faculty of Economics|Macroeconomics School|Decartes building
Middleton|Faculty of Medicine|School of Surgery|Maddison commons
Constitutional School
Corporate School
Macroeconomics School
Microeconomics School
School of Astronomy
School of Chemistry
School of Civil Rights
School of Physics
School of Politics
School of Surgery
Faculty of Law|School of Politics
Faculty of Law|School of Civil Rights
Faculty of Law|Constitutional School
Faculty of Law|Corporate School
Middleton|Faculty of Law|School of Politics|One Middleton
Middleton|Faculty of Law|School of Civil Rights|One Middleton
Middleton|Faculty of Law|Constitutional School|One Middleton
Middleton|Faculty of Law|Corporate School|One Middleton
School of Physics
School of Chemistry
School of Astronomy
```


Execute Share main.sql STDIN

```

106
107 CREATE TABLE Programme(
108     SchoolName text,
109     ProgCode varchar (5),
110     Title text,
111     Level integer,
112     Duration varchar,
113     Electives integer,
114     PRIMARY KEY (ProgCode),
115     FOREIGN KEY (SchoolName) REFERENCES School (SchoolName)
116 );
117
118
119 INSERT INTO Programme VALUES('School of Politics','SP-01','Public Administration', 1,'72 h', 2);
120 INSERT INTO Programme VALUES('School of Politics','SP-02','International Relations', 1,'72 h', 3);
121 INSERT INTO Programme VALUES('School of Politics','SP-03','Political Science', 2,'36 h', 2);
122 INSERT INTO Programme VALUES('School of Politics','SP-04','Economics', 2,'36 h', 0);
123 INSERT INTO Programme VALUES('School of Politics','SP-05','Business Administration', 3,'72 h', 3);
124 INSERT INTO Programme VALUES('School of Politics','SP-06','Public Policy', 3,'80 h', 4);
125 INSERT INTO Programme VALUES('School of Politics','SP-07','Public Health', 4,'72 h', 3);
126 INSERT INTO Programme VALUES('School of Politics','SP-08','Communications', 4,'80 h', 2);
127 INSERT INTO Programme VALUES('School of Politics','SP-09','International Business', 5,'72 h', 2);
128 INSERT INTO Programme VALUES('School of Politics','SP-10','Criminal Justice', 5,'80 h', 3);
129
130
131
132 /* QUERIES */
133
134 SELECT * FROM Programme;
135 SELECT ProgCode, Title from Programme;
136 SELECT Title from Programme where Electives > 1;
137 SELECT ProgCode from Programme where Duration = "72 h";
138 SELECT Title, Level from Programme;
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153

```

Programme Entity

Result

```
$sqlite3 database.sdb < main.sql
```

```

School of Politics|SP-01|Public Administration|1|72 h|2
School of Politics|SP-02|International Relations|1|72 h|3
School of Politics|SP-03|Political Science|2|36 h|2
School of Politics|SP-04|Economics|2|36 h|0
School of Politics|SP-05|Business Administration|3|72 h|3
School of Politics|SP-06|Public Policy|3|80 h|4
School of Politics|SP-07|Public Health|4|72 h|3
School of Politics|SP-08|Communications|4|80 h|2
School of Politics|SP-09|International Business|5|72 h|2
School of Politics|SP-10|Criminal Justice|5|80 h|3

```

```

SP-01|Public Administration
SP-02|International Relations
SP-03|Political Science
SP-04|Economics
SP-05|Business Administration
SP-06|Public Policy
SP-07|Public Health
SP-08|Communications
SP-09|International Business
SP-10|Criminal Justice

```

```

Public Administration
International Relations
Political Science
Business Administration
Public Policy
Public Health
Communications
International Business
Criminal Justice

```

```

SP-01
SP-02
SP-05
SP-07
SP-09

```

```

Public Administration|1
International Relations|1
Political Science|2
Economics|2
Business Administration|3
Public Policy|3
Public Health|4
Communications|4
International Business|5
Criminal Justice|5

```

Execute | Share | main.sql | STDIN

```

143
144 /*=====Course TABLE*/
145
146
147 CREATE TABLE Course(
148     CourseCode varchar (6),
149     Title text,
150     Prerequisites integer,
151     PRIMARY KEY (CourseCode)
152 );
153
154
155 INSERT INTO Course VALUES('PS 210','Introduction to Comparative Politics',3);
156 INSERT INTO Course VALUES('PS 230','Introduction to International Relations',2);
157 INSERT INTO Course VALUES('PS 240','Introduction to Political Theory',3);
158 INSERT INTO Course VALUES('PS 360','Politics of Law and Courts',1);
159 INSERT INTO Course VALUES('PS 363','Criminal Courts and Process',1);
160 INSERT INTO Course VALUES('PS 372','Introduction to Political Analysis',4);
161 INSERT INTO Course VALUES('PS 391','Special Topics in Political Science',1);
162 INSERT INTO Course VALUES('PS 395','Independent Work',2);
163 INSERT INTO Course VALUES('PS 399','Internship in Government',2);
164 INSERT INTO Course VALUES('PS 415','Comparative Judicial Politics',4);
165
166
167
168 /* QUERIES */
169
170 SELECT * FROM Course;
171 SELECT CourseCode, Title FROM Course;
172 Select CourseCode FROM Course WHERE Prerequisites > 1;
173 Select Title FROM Course WHERE Prerequisites = 2;
174 Select * from Course where Prerequisites = 4;
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190

```

Course Entity

Result

```

$sqlite3 database.sdb < main.sql
PS 210|Introduction to Comparative Politics|3
PS 230|Introduction to International Relations|2
PS 240|Introduction to Political Theory|3
PS 360|Politics of Law and Courts|1
PS 363|Criminal Courts and Process|1
PS 372|Introduction to Political Analysis|4
PS 391|Special Topics in Political Science|1
PS 395|Independent Work|2
PS 399|Internship in Government|2
PS 415|Comparative Judicial Politics|4
PS 210|Introduction to Comparative Politics
PS 230|Introduction to International Relations
PS 240|Introduction to Political Theory
PS 360|Politics of Law and Courts
PS 363|Criminal Courts and Process
PS 372|Introduction to Political Analysis
PS 391|Special Topics in Political Science
PS 395|Independent Work
PS 399|Internship in Government
PS 415|Comparative Judicial Politics
PS 210
PS 230
PS 240
PS 372
PS 395
PS 399
PS 415
Introduction to International Relations
Independent Work
Internship in Government
PS 372|Introduction to Political Analysis|4
PS 415|Comparative Judicial Politics|4

```

Execute | Share | main.sql | STDIN

```

182
183 /*=====Students TABLE*/
184
185 CREATE TABLE Student(
186     StudentID varchar (9),
187     Name text,
188     ProgCode varchar (5),
189     StudentElectives integer,
190     Birthday date,
191     YearEnrolled integer,
192     PRIMARY KEY (StudentID),
193     FOREIGN KEY (ProgCode) REFERENCES Programme (ProgCode)
194 );
195
196
197 INSERT INTO Student VALUES('2020-0023','Hans Miguel Ubaña', 'SP-03', 2, 09/14/2001, 2020);
198 INSERT INTO Student VALUES('2020-0045','Don Lean Sanchez', 'SP-03', 2, 07/26/2001, 2020);
199 INSERT INTO Student VALUES('2020-0054','Jamaica Serafina', 'SP-03', 2, 04/20/2001, 2020);
200 INSERT INTO Student VALUES('2020-0056','Angelica Paulo', 'SP-01', 2, 01/04/2001, 2020);
201 INSERT INTO Student VALUES('2020-0067','Li Bingnan', 'SP-01', 2, 02/09/2001, 2020);
202 INSERT INTO Student VALUES('2020-0070','Juan Carlos Soriano', 'SP-10', 3, 08/22/2001, 2020);
203 INSERT INTO Student VALUES('2020-0079','Osmel Gerardo', 'SP-10', 3, 07/12/2001, 2020);
204 INSERT INTO Student VALUES('2020-0086','Vanessa Aguilon', 'SP-10', 3, 07/16/2001, 2020);
205 INSERT INTO Student VALUES('2020-0090','Kyle Ablian', 'SP-10', 3, 10/16/2001, 2020);
206 INSERT INTO Student VALUES('2020-0099','Marlon Duplon', 'SP-10', 3, 07/01/2002 , 2020);
207
208
209
210 /* QUERIES */
211
212 SELECT * FROM Student;
213 SELECT Name, ProgCode FROM Student;
214 SELECT StudentID, Name FROM Student;
215 SELECT Name FROM Student WHERE StudentElectives = 2;
216 SELECT StudentID, YearEnrolled FROM Student;
217
218
219
220
221
222
223
224
225
226
227
228
229
230

```

Result

```

$sqlite3 database.sdb < main.sql
2020-0023|Hans Miguel Ubaña|SP-03|2|0|2020
2020-0045|Don Lean Sanchez|SP-03|2|0|2020
2020-0054|Jamaica Serafina|SP-03|2|0|2020
2020-0056|Angelica Paulo|SP-01|2|0|2020
2020-0067|Li Bingnan|SP-01|2|0|2020
2020-0070|Juan Carlos Soriano|SP-10|3|0|2020
2020-0079|Osmel Gerardo|SP-10|3|0|2020
2020-0086|Vanessa Aguilon|SP-10|3|0|2020
2020-0090|Kyle Ablian|SP-10|3|0|2020
2020-0099|Marlon Duplon|SP-10|3|0|2020
Hans Miguel Ubaña|SP-03
Don Lean Sanchez|SP-03
Jamaica Serafina|SP-03
Angelica Paulo|SP-01
Li Bingnan|SP-01
Juan Carlos Soriano|SP-10
Osmel Gerardo|SP-10
Vanessa Aguilon|SP-10
Kyle Ablian|SP-10
Marlon Duplon|SP-10
2020-0023|Hans Miguel Ubaña
2020-0045|Don Lean Sanchez
2020-0054|Jamaica Serafina
2020-0056|Angelica Paulo
2020-0067|Li Bingnan
2020-0070|Juan Carlos Soriano
2020-0079|Osmel Gerardo
2020-0086|Vanessa Aguilon
2020-0090|Kyle Ablian
2020-0099|Marlon Duplon
Hans Miguel Ubaña
Don Lean Sanchez
Jamaica Serafina
Angelica Paulo
Li Bingnan
2020-0023|2020
2020-0045|2020
2020-0054|2020
2020-0056|2020
2020-0067|2020
2020-0070|2020
2020-0079|2020
2020-0086|2020
2020-0090|2020
2020-0099|2020

```

Student Entity

Execute | Share | main.sql | STDIN

```

222
223 /*=====CourseTaken TABLE*/
224
225 CREATE TABLE CourseTaken(
226     StudentID varchar (9),
227     CourseCode varchar (6),
228     Grade char,
229     Year integer,
230     Term varchar,
231     FOREIGN KEY (StudentID) REFERENCES Students (StudentID),
232     FOREIGN KEY (CourseCode) REFERENCES Course (CourseCode)
233 );
234
235
236 INSERT INTO CourseTaken VALUES('2020-0023','PS 210','A',1,'2nd');
237 INSERT INTO CourseTaken VALUES('2020-0045','PS 230','B+',1,'1st');
238 INSERT INTO CourseTaken VALUES('2020-0054','PS 240','A',1,'2nd');
239 INSERT INTO CourseTaken VALUES('2020-0056','PS 360','B',1,'1st');
240 INSERT INTO CourseTaken VALUES('2020-0067','PS 363','A',1,'2nd');
241 INSERT INTO CourseTaken VALUES('2020-0070','PS 372','B-',1,'1st');
242 INSERT INTO CourseTaken VALUES('2020-0079','PS 391','A',1,'2nd');
243 INSERT INTO CourseTaken VALUES('2020-0086','PS 395','B+',1,'1st');
244 INSERT INTO CourseTaken VALUES('2020-0090','PS 399','B-',1,'2nd');
245 INSERT INTO CourseTaken VALUES('2020-0099','PS 415','A',1,'1st');
246
247
248
249 /* QUERIES */
250
251 SELECT * FROM CourseTaken;
252 SELECT StudentID from CourseTaken where Term = '2nd';
253 SELECT * from CourseTaken where Grade = 'A';
254 SELECT StudentID from CourseTaken where Term = '1st';
255 SELECT * from CourseTaken where Grade = 'B-';
256
257
258
259
260
261
262
263
264
265
266
267
268
269

```

Result

\$sqlite3 database.sdb < main.sql

```

2020-0023|PS 210|A|1|2nd
2020-0045|PS 230|B+|1|1st
2020-0054|PS 240|A|1|2nd
2020-0056|PS 360|B|1|1st
2020-0067|PS 363|A|1|2nd
2020-0070|PS 372|B-|1|1st
2020-0079|PS 391|A|1|2nd
2020-0086|PS 395|B+|1|1st
2020-0090|PS 399|B-|1|2nd
2020-0099|PS 415|A|1|1st

```

```

2020-0023
2020-0054
2020-0067
2020-0079
2020-0090

```

```

2020-0023|PS 210|A|1|2nd
2020-0054|PS 240|A|1|2nd
2020-0067|PS 363|A|1|2nd
2020-0079|PS 391|A|1|2nd
2020-0099|PS 415|A|1|1st

```

```

2020-0045
2020-0056
2020-0070
2020-0086
2020-0099

```

```

2020-0070|PS 372|B-|1|1st
2020-0090|PS 399|B-|1|2nd

```

Course Taken Entity

Execute Share main.sql STDIN

```

258
259
260 CREATE TABLE Lecturer(
261     SchoolName text,
262     LecturerID varchar (11),
263     LecturerName text,
264     ProfTitle text,
265     OfficeNo int,
266     Supervisor text,
267     PRIMARY KEY (LecturerID),
268     FOREIGN KEY (SchoolName) REFERENCES School (SchoolName)
269 );
270
271
272 INSERT INTO Lecturer VALUES('School of Politics','SP2018-0001',
273     'Mr. Bartholomew Allen','Assistant Professor', 203, 'Mr. Harry Potter');
274 INSERT INTO Lecturer VALUES('School of Politics','SP2018-0002',
275     'Mrs. Irish West-Allen','Professor', 201, 'Mrs. Hermione Granger');
276 INSERT INTO Lecturer VALUES('School of Politics','SP2018-0003',
277     'Mr. Joseph West','Assistant Professor', 203, 'Mr. Harry Potter');
278 INSERT INTO Lecturer VALUES('School of Politics','SP2018-0004',
279     'Mrs. Cecile Horton','Associate Professor', 202, 'Mr. Ronald Weasley');
280 INSERT INTO Lecturer VALUES('School of Politics','SP2018-0005',
281     'Mr. Cisco Ramon','Professor', 201, 'Mrs. Hermione Granger');
282 INSERT INTO Lecturer VALUES('School of Politics','SP2018-0006',
283     'Ms. Caitlyn Snow','Assistant Professor', 203, 'Mr. Harry Potter');
284 INSERT INTO Lecturer VALUES('School of Politics','SP2018-0007',
285     'Mr. Harrison Wells','Associate Professor', 202, 'Mr. Ronald Weasley');
286 INSERT INTO Lecturer VALUES('School of Politics','SP2018-0008',
287     'Mr. Wally West','Professor', 201, 'Mrs. Hermione Granger');
288 INSERT INTO Lecturer VALUES('School of Politics','SP2018-0009',
289     'Mr. Ralph Dibny','Associate Professor', 202, 'Mr. Ronald Weasley');
290 INSERT INTO Lecturer VALUES('School of Politics','SP2018-0010',
291     'Ms. Nora Allen','Professor', 201, 'Mrs. Hermione Granger');
292
293 /* QUERIES */
294
295 SELECT * FROM Lecturer;
296 SELECT LecturerID, LecturerName FROM Lecturer;
297 SELECT LecturerName, ProfTitle FROM Lecturer;
298 SELECT LecturerID FROM Lecturer WHERE OfficeNo = 201;
299 SELECT LecturerName, Supervisor FROM Lecturer;
300
301

```

Result

\$sqlite3 database.sdb < main.sql

```

School of Politics|SP2018-0001|Mr. Bartholomew Allen|Assistant Professor|203|Mr. Harry Potter
School of Politics|SP2018-0002|Mrs. Irish West-Allen|Professor|201|Mrs. Hermione Granger
School of Politics|SP2018-0003|Mr. Joseph West|Assistant Professor|203|Mr. Harry Potter
School of Politics|SP2018-0004|Mrs. Cecile Horton|Associate Professor|202|Mr. Ronald Weasley
School of Politics|SP2018-0005|Mr. Cisco Ramon|Professor|201|Mrs. Hermione Granger
School of Politics|SP2018-0006|Ms. Caitlyn Snow|Assistant Professor|203|Mr. Harry Potter
School of Politics|SP2018-0007|Mr. Harrison Wells|Associate Professor|202|Mr. Ronald Weasley
School of Politics|SP2018-0008|Mr. Wally West|Professor|201|Mrs. Hermione Granger
School of Politics|SP2018-0009|Mr. Ralph Dibny|Associate Professor|202|Mr. Ronald Weasley
School of Politics|SP2018-0010|Ms. Nora Allen|Professor|201|Mrs. Hermione Granger
SP2018-0001|Mr. Bartholomew Allen
SP2018-0002|Mrs. Irish West-Allen
SP2018-0003|Mr. Joseph West
SP2018-0004|Mrs. Cecile Horton
SP2018-0005|Mr. Cisco Ramon
SP2018-0006|Ms. Caitlyn Snow
SP2018-0007|Mr. Harrison Wells
SP2018-0008|Mr. Wally West
SP2018-0009|Mr. Ralph Dibny
SP2018-0010|Ms. Nora Allen
Mr. Bartholomew Allen|Assistant Professor
Mrs. Irish West-Allen|Professor
Mr. Joseph West|Assistant Professor
Mrs. Cecile Horton|Associate Professor
Mr. Cisco Ramon|Professor
Ms. Caitlyn Snow|Assistant Professor
Mr. Harrison Wells|Associate Professor
Mr. Wally West|Professor
Mr. Ralph Dibny|Associate Professor
Ms. Nora Allen|Professor
SP2018-0002
SP2018-0005
SP2018-0008
SP2018-0010
Mr. Bartholomew Allen|Mr. Harry Potter
Mrs. Irish West-Allen|Mrs. Hermione Granger
Mr. Joseph West|Mr. Harry Potter
Mrs. Cecile Horton|Mr. Ronald Weasley
Mr. Cisco Ramon|Mrs. Hermione Granger
Ms. Caitlyn Snow|Mr. Harry Potter
Mr. Harrison Wells|Mr. Ronald Weasley
Mr. Wally West|Mrs. Hermione Granger
Mr. Ralph Dibny|Mr. Ronald Weasley
Ms. Nora Allen|Mrs. Hermione Granger

```

Lecturer Entity

Execute | Share | main.sql | STDIN

```

338
339
340
341 /*=====Committee TABLE*/
342
343 CREATE TABLE Committee(
344     ComTitle text,
345     Meetings text
346 );
347
348
349 INSERT INTO Committee VALUES('Faculty Executive','Weekly');
350 INSERT INTO Committee VALUES('Post Graduate Studies Committee','Weekly');
351 INSERT INTO Committee VALUES('Health and Sanity Committee','Weekly');
352 INSERT INTO Committee VALUES('Multimedia Committee','Monthly');
353 INSERT INTO Committee VALUES('Finance Committee','Weekly');
354 INSERT INTO Committee VALUES('Elections Committee','Monthly');
355 INSERT INTO Committee VALUES('Fundraising Committee','Monthly');
356 INSERT INTO Committee VALUES('Program Committee','Monthly');
357 INSERT INTO Committee VALUES('Logistics Committee','Monthly');
358 INSERT INTO Committee VALUES('High School Committee','Weekly');
359
360 /* QUERIES */
361
362 SELECT * FROM Committee;
363 Select ComTitle FROM Committee WHERE Meetings = 'Weekly';
364 Select ComTitle FROM Committee WHERE ComTitle Like 'f%';
365 Select ComTitle FROM Committee WHERE Meetings = 'Monthly';
366 Select ComTitle FROM Committee WHERE ComTitle = 'Faculty Executive';
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381

```

Result

\$sqlite3 database.sdb < main.sql

```

Faculty Executive|Weekly
Post Graduate Studies Committee|Weekly
Health and Sanity Committee|Weekly
Multimedia Committee|Monthly
Finance Committee|Weekly
Elections Committee|Monthly
Fundraising Committee|Monthly
Program Committee|Monthly
Logistics Committee|Monthly
High School Committee|Weekly
Faculty Executive
Post Graduate Studies Committee
Health and Sanity Committee
Finance Committee
High School Committee
Faculty Executive
Finance Committee
Fundraising Committee
Multimedia Committee
Elections Committee
Fundraising Committee
Program Committee
Logistics Committee
Faculty Executive

```

Committee Entity

ER Diagram

<https://online.visual-paradigm.com/diagrams/>

SQLite

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