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1  /*
2  Created: 2017-10-27
3  Modified: 2017-10-28
4  Model: PostgreSQL 9.3
5  Database: PostgreSQL 9.3
6  */
7
8
9  -- Create tables section -----
10
11  -- Table Movie
12
13  CREATE TABLE "Movie"(
14      "movieID" Integer NOT NULL,
15      "movieTitle" Character varying NOT NULL,
16      "releaseDate" Date NOT NULL,
17      "rating" Integer NOT NULL,
18      "budget" Money NOT NULL,
19      "gross" Money,
20      "directorID" Integer,
21      "producerID" Integer,
22      "writerID" Integer
23  )
24  ;
25
26  -- Create indexes for table Movie
27
28  CREATE INDEX "IX_Relationship24" ON "Movie" ("directorID")
29  ;
30
31  CREATE INDEX "IX_Relationship25" ON "Movie" ("producerID")
32  ;
33
34  CREATE INDEX "IX_Relationship26" ON "Movie" ("writerID")
35  ;
36
37  -- Add keys for table Movie
38
39  ALTER TABLE "Movie" ADD CONSTRAINT "Key1" PRIMARY KEY ("movieID")
40  ;
41
42  -- Table Director
43
44  CREATE TABLE "Director"(
45      "directorID" Integer NOT NULL,
46      "directorRole" Character varying NOT NULL,
47      "salary" Money
48  )
49  ;
50
51  -- Add keys for table Director
52
53  ALTER TABLE "Director" ADD CONSTRAINT "Key2" PRIMARY KEY ("directorID")
54  ;
55
56  -- Table Actor
57
58  CREATE TABLE "Actor"(
59      "actorID" Integer NOT NULL,
60      "actorRole" Character varying NOT NULL,
61      "agency" Character varying NOT NULL,
62      "salary" Money
63  )
64  ;
65
66  -- Add keys for table Actor
67
68  ALTER TABLE "Actor" ADD CONSTRAINT "Key3" PRIMARY KEY ("actorID")
69  ;

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70
71 -- Table Genre
72
73 CREATE TABLE "Genre"(
74     "genreID" Integer NOT NULL,
75     "type" Character varying NOT NULL,
76     "description" Character varying
77 )
78 ;
79
80 -- Add keys for table Genre
81
82 ALTER TABLE "Genre" ADD CONSTRAINT "Key4" PRIMARY KEY ("genreID")
83 ;
84
85 -- Table BirthOrigin
86
87 CREATE TABLE "BirthOrigin"(
88     "birthOriginID" Integer NOT NULL,
89     "city" Character varying NOT NULL,
90     "state" Character varying NOT NULL,
91     "country" Character varying NOT NULL
92 )
93 ;
94
95 -- Add keys for table BirthOrigin
96
97 ALTER TABLE "BirthOrigin" ADD CONSTRAINT "Key5" PRIMARY KEY ("birthOriginID")
98 ;
99
100 -- Table Cinema
101
102 CREATE TABLE "Cinema"(
103     "cinemaID" Integer NOT NULL,
104     "cinemaName" Character varying NOT NULL,
105     "phoneNumber" Character varying NOT NULL,
106     "streetName" Character varying NOT NULL,
107     "streetNumber" Character varying NOT NULL,
108     "city" Character varying NOT NULL,
109     "country" Character varying NOT NULL,
110     "postalCode" Character varying NOT NULL
111 )
112 ;
113
114 -- Add keys for table Cinema
115
116 ALTER TABLE "Cinema" ADD CONSTRAINT "Key8" PRIMARY KEY ("cinemaID")
117 ;
118
119 -- Table Awards
120
121 CREATE TABLE "Awards"(
122     "awardID" Integer NOT NULL,
123     "awardName" Character varying NOT NULL,
124     "awardedBy" Character varying NOT NULL,
125     "awardDescription" Character varying
126 )
127 ;
128
129 -- Add keys for table Awards
130
131 ALTER TABLE "Awards" ADD CONSTRAINT "Key9" PRIMARY KEY ("awardID")
132 ;
133
134 -- Table Quotes
135
136 CREATE TABLE "Quotes"(
137     "quoteID" Integer NOT NULL,
138     "quote" Character varying NOT NULL,

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139     "genreID" Integer,
140     "personID" Integer,
141     "moviedID" Integer NOT NULL
142 )
143 ;
144
145 -- Create indexes for table Quotes
146
147 CREATE INDEX "IX_Relationship33" ON "Quotes" ("genreID")
148 ;
149
150 CREATE INDEX "IX_Relationship34" ON "Quotes" ("personID")
151 ;
152
153 -- Add keys for table Quotes
154
155 ALTER TABLE "Quotes" ADD CONSTRAINT "Key10" PRIMARY KEY ("quoteID", "moviedID")
156 ;
157
158 -- Table CastMember
159
160 CREATE TABLE "CastMember"(
161     "actorID" Integer NOT NULL,
162     "moviedID" Integer NOT NULL
163 )
164 ;
165
166 -- Add keys for table CastMember
167
168 ALTER TABLE "CastMember" ADD CONSTRAINT "Key11" PRIMARY KEY ("actorID", "moviedID")
169 ;
170
171 -- Table MovieDetails
172
173 CREATE TABLE "MovieDetails"(
174     "genreID" Integer NOT NULL,
175     "moviedID" Integer NOT NULL
176 )
177 ;
178
179 -- Add keys for table MovieDetails
180
181 ALTER TABLE "MovieDetails" ADD CONSTRAINT "Key13" PRIMARY KEY ("genreID", "moviedID")
182 ;
183
184 -- Table Showtimes
185
186 CREATE TABLE "Showtimes"(
187     "cinemaID" Integer NOT NULL,
188     "room" Integer NOT NULL,
189     "time" Time NOT NULL,
190     "ticketPrice" Money NOT NULL,
191     "showType" Character varying NOT NULL,
192     "moviedID" Integer NOT NULL
193 )
194 ;
195
196 -- Add keys for table Showtimes
197
198 ALTER TABLE "Showtimes" ADD CONSTRAINT "Key16" PRIMARY KEY
199 ("cinemaID", "room", "time", "moviedID")
200 ;
201
202 -- Table Writer
203
204 CREATE TABLE "Writer"(
205     "writerID" Integer NOT NULL,
206     "publisher" Character varying NOT NULL,
207     "salary" Money

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207 )
208 ;
209
210 -- Add keys for table Writer
211
212 ALTER TABLE "Writer" ADD CONSTRAINT "Key17" PRIMARY KEY ("writerID")
213 ;
214
215 -- Table Producer
216
217 CREATE TABLE "Producer" (
218     "producerID" Integer NOT NULL,
219     "studioName" Character varying NOT NULL,
220     "producerType" Character varying NOT NULL,
221     "salary" Money
222 )
223 ;
224
225 -- Add keys for table Producer
226
227 ALTER TABLE "Producer" ADD CONSTRAINT "Key18" PRIMARY KEY ("producerID")
228 ;
229
230 -- Table Person
231
232 CREATE TABLE "Person" (
233     "personID" Integer NOT NULL,
234     "sinNumber" Integer NOT NULL,
235     "firstName" Character varying NOT NULL,
236     "surName" Character varying NOT NULL,
237     "gender" Boolean NOT NULL,
238     "eyeColor" Character varying,
239     "middleName" Character varying,
240     "actorID" Integer,
241     "directorID" Integer,
242     "producerID" Integer,
243     "writerID" Integer
244 )
245 ;
246
247 -- Create indexes for table Person
248
249 CREATE INDEX "IX_Relationship27" ON "Person" ("actorID")
250 ;
251
252 CREATE INDEX "IX_Relationship29" ON "Person" ("directorID")
253 ;
254
255 CREATE INDEX "IX_Relationship30" ON "Person" ("producerID")
256 ;
257
258 CREATE INDEX "IX_Relationship31" ON "Person" ("writerID")
259 ;
260
261 -- Add keys for table Person
262
263 ALTER TABLE "Person" ADD CONSTRAINT "Key19" PRIMARY KEY ("personID")
264 ;
265
266 -- Table BirthRecord
267
268 CREATE TABLE "BirthRecord" (
269     "personID" Integer NOT NULL,
270     "birthOriginID" Integer NOT NULL,
271     "birthDate" Date NOT NULL
272 )
273 ;
274
275 -- Add keys for table BirthRecord

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276
277 ALTER TABLE "BirthRecord" ADD CONSTRAINT "Key20" PRIMARY KEY ("personID","birthOriginID")
278 ;
279
280 -- Table Rewards
281
282 CREATE TABLE "Rewards"(
283     "awardID" Integer NOT NULL,
284     "moviedID" Integer NOT NULL
285 )
286 ;
287
288 -- Add keys for table Rewards
289
290 ALTER TABLE "Rewards" ADD CONSTRAINT "Key21" PRIMARY KEY ("awardID","moviedID")
291 ;
292 -- Create foreign keys (relationships) section
-----
293
294 ALTER TABLE "CastMember" ADD CONSTRAINT "Plays In" FOREIGN KEY ("actorID") REFERENCES
"Actor" ("actorID") ON DELETE NO ACTION ON UPDATE NO ACTION
295 ;
296
297 ALTER TABLE "CastMember" ADD CONSTRAINT "Casts" FOREIGN KEY ("moviedID") REFERENCES
"Movie" ("movieID") ON DELETE NO ACTION ON UPDATE NO ACTION
298 ;
299
300 ALTER TABLE "MovieDetails" ADD CONSTRAINT "Is Of" FOREIGN KEY ("genreID") REFERENCES
"Genre" ("genreID") ON DELETE NO ACTION ON UPDATE NO ACTION
301 ;
302
303 ALTER TABLE "MovieDetails" ADD CONSTRAINT "Described By" FOREIGN KEY ("moviedID")
REFERENCES "Movie" ("movieID") ON DELETE NO ACTION ON UPDATE NO ACTION
304 ;
305
306 ALTER TABLE "Showtimes" ADD CONSTRAINT "Open During" FOREIGN KEY ("cinemaID")
REFERENCES "Cinema" ("cinemaID") ON DELETE NO ACTION ON UPDATE NO ACTION
307 ;
308
309 ALTER TABLE "Showtimes" ADD CONSTRAINT "Shown" FOREIGN KEY ("moviedID") REFERENCES
"Movie" ("movieID") ON DELETE NO ACTION ON UPDATE NO ACTION
310 ;
311
312 ALTER TABLE "BirthRecord" ADD CONSTRAINT "Born" FOREIGN KEY ("personID") REFERENCES
"Person" ("personID") ON DELETE NO ACTION ON UPDATE NO ACTION
313 ;
314
315 ALTER TABLE "BirthRecord" ADD CONSTRAINT "Located" FOREIGN KEY ("birthOriginID")
REFERENCES "BirthOrigin" ("birthOriginID") ON DELETE NO ACTION ON UPDATE NO ACTION
316 ;
317
318 ALTER TABLE "Movie" ADD CONSTRAINT "Directs" FOREIGN KEY ("directorID") REFERENCES
"Director" ("directorID") ON DELETE NO ACTION ON UPDATE NO ACTION
319 ;
320
321 ALTER TABLE "Movie" ADD CONSTRAINT "Produces" FOREIGN KEY ("producerID") REFERENCES
"Producer" ("producerID") ON DELETE NO ACTION ON UPDATE NO ACTION
322 ;
323
324 ALTER TABLE "Movie" ADD CONSTRAINT "Writes" FOREIGN KEY ("writerID") REFERENCES
"Writer" ("writerID") ON DELETE NO ACTION ON UPDATE NO ACTION
325 ;
326
327 ALTER TABLE "Person" ADD CONSTRAINT "Is A1" FOREIGN KEY ("actorID") REFERENCES "Actor"
("actorID") ON DELETE NO ACTION ON UPDATE NO ACTION
328 ;
329
330 ALTER TABLE "Person" ADD CONSTRAINT "Is A2" FOREIGN KEY ("directorID") REFERENCES
"Director" ("directorID") ON DELETE NO ACTION ON UPDATE NO ACTION

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331 ;
332
333 ALTER TABLE "Person" ADD CONSTRAINT "Is A3" FOREIGN KEY ("producerID") REFERENCES
"Producer" ("producerID") ON DELETE NO ACTION ON UPDATE NO ACTION
334 ;
335
336 ALTER TABLE "Person" ADD CONSTRAINT "Is A4" FOREIGN KEY ("writerID") REFERENCES
"Writer" ("writerID") ON DELETE NO ACTION ON UPDATE NO ACTION
337 ;
338
339 ALTER TABLE "Quotes" ADD CONSTRAINT "Has" FOREIGN KEY ("moviedID") REFERENCES "Movie"
("movieID") ON DELETE NO ACTION ON UPDATE NO ACTION
340 ;
341
342 ALTER TABLE "Quotes" ADD CONSTRAINT "Categorizes" FOREIGN KEY ("genreID") REFERENCES
"Genre" ("genreID") ON DELETE NO ACTION ON UPDATE NO ACTION
343 ;
344
345 ALTER TABLE "Quotes" ADD CONSTRAINT "Says" FOREIGN KEY ("personID") REFERENCES "Person"
("personID") ON DELETE NO ACTION ON UPDATE NO ACTION
346 ;
347
348 ALTER TABLE "Rewards" ADD CONSTRAINT "Given To" FOREIGN KEY ("awardID") REFERENCES
"Awards" ("awardID") ON DELETE NO ACTION ON UPDATE NO ACTION
349 ;
350
351 ALTER TABLE "Rewards" ADD CONSTRAINT "Awarded" FOREIGN KEY ("moviedID") REFERENCES
"Movie" ("movieID") ON DELETE NO ACTION ON UPDATE NO ACTION
352 ;
353
354
355
356
357
```