AngryAnt Relational Model

Groups(groupId:INT, groupName:VARCHAR)

Video(videoId, segId, frameRate, youTubeUrl, groupId, width, height, name, startFrameNum)

foreign key(groupId) references Group

// width, height: original dimensions of video before it was uploaded to YouTube

Ant(antId, videoId, segId, frameRate, numPaths, probSelect, color)

foreign key(videoId, segId, frameRate) references Video

// frameRate defaults to 0, which references the placeholder row for a video segment

Path(pathId, antId, videoId, segId, frameRate)

foreign key(antId, videoId, segId, frameRate) references Ant

KnownPath(pathId, source)

foreign key(pathId) references Path

// source: either the algorithm used to compute the average or from where the data came (i.e.

// automated solution or entomologists’ ground truth)

Users(userId, name, joinDate, highScore)

SubmittedPath(pathId, userId, timestamp)

foreign key(pathId) references Path

foreign key(userId) references User

Coordinate(pathId, frameNum, x, y, angle, behaviors)

foreign key(pathId) references Path

Fact(factId, description)

FactRelevantTo(factId, antId, videoId, segId, frameRate)

foreign key (factId) references Fact

foreign key (antId) references Ant

foreign key (videoId, segId, frameRate) references Video

// Use segId = 1 to reference a whole video

// Use frameRate = 0 to reference a video segment