movies_by_actor

actor	K
release_date	C ↓
videoid (uuid)	C ↑
actors (list)	
description	
preview_image_location	
title	

Q6

movies_by_actor_genre

actor	K
genre	K
release_date	C ↓
videoid	C ↑
actors (list)	
description	
genres (set)	
preview_image_location	
title	

Q8

movies_by_country

country	K
release_date	C ↓
videoid (uuid)	C ↑
description	
preview_image_location	
title	

Q9

movies_by_genre

genre	K
release_date	C ↓
videoid (uuid)	C ↑
description	
genres (set)	
preview_image_location	
title	

Q7

movies_by_title

title	K
release_date	C ↓
videoid (uuid)	C ↑
description	
preview_image_location	

Q4, Q5

Q1

users_by_email

email	K
password	
userid (uuid)	

Q2

latest_videos

yyyymmdd	K
added_date	C ↓
videoid (uuid)	C ↑
name	
preview_image_location	

Q3

videos_by_tag

tag	K
videoid (uuid)	C ↑
added_date	
preview_image_location	
tagged_date	
title	

Q10

users

userid (uuid)	K
created_date	
email	
firstname	
lastname	

Q11

videos_by_user

userid (uuid)	K
added_date	C ↓
videoid (uuid)	C ↑
preview_image_location	
title	

Q12

comments_by_user

userid (uuid)	K
commentid (timeuuid)	C ↓
comment	
videoid (uuid)	

Q13

comments_by_video

videoid (uuid)	K
commentid (timeuuid)	C ↓
userid (uuid)	

Q14

videos

videoid (uuid)	K
actors (list)	
added_date	
country	
description	
genres (set)	
location	
location_type	
metadata (set)	
preview_thumbnails (map)	
tags (set)	
title	
userid (uuid)	

Q15

video_rating

videoid (uuid)	K
rating_counter (counter)	
rating_total (counter)	

ACCESS PATTERNS

Q1: Find a user with a specified email

Q2: Find videos with a specified upload timestamp range (latest first)

Q3: Find videos with a specified tag (latest first)

Q4: Find videos with a specified title (latestf first)

Q5: Find videos with a specified title and release year (latest first)

Q6: Find videos with a specified actor and release year range (latest first)

Q7: Find videos with a specified genre and release year range (latest first)

Q8: Find videos with a specified actor and genre and release year range (latest first)

Q9: Find videos with a specified country (latest first)

Q10: Find a user with a specified user id

Q11: Find videos with a specified user id (latest first)

Q12: Find comments with a specified user id (latest first)

Q13: Find comments with a specified video id (latest first)

Q14: Find a video with a specified video id

Q15: Find a rating with a specified video id