

วิเคราะห์แนวโน้ม การล่อຍโคมในช่วงที่ผ่านมา



MEMBER (SEC 1)

01

663380010-0 นายชนวีร์ ประจันทร์

02

663380217-8 นายปัญญา สุริวรรณ

03

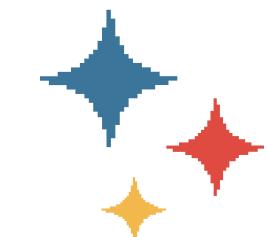
663380223-3 นายพิรัชย์ ชัยรัตน์

04

663380241-1 นายสุทธิภัทร ลักษอม

05

663380242-9 นายอดิเทว มนันที



ແກລ່ງຂ້ອມູລ

STEAM



IGDB



RAWG



ຕົວອຍ່າງຂ້ອມູນ



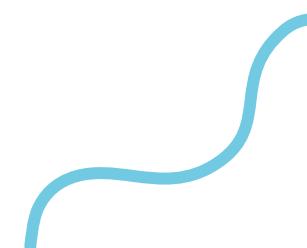
	id	name	type	genres	categories	is_free	release_date	platforms	recommendations	price_currency	price
0	3282930	AI Asylum	game	Action, Adventure, Casual, Indie, RPG, Simulation	Single-player, Family Sharing	False	Dec 30, 2024	windows	0	USD	\$6.99
1	3302650	Conscience	game	Indie, Free To Play	Single-player	True	Dec 30, 2024	windows	0	Nan	Nan
2	3036220	Morningtide Motel	game	Casual, Indie, RPG, Simulation	Single-player, Steam Achievements, Steam Cloud...	False	Dec 30, 2024	windows, mac, linux	0	USD	\$2.99
3	2885480	BattleCap	game	Action, Casual, Indie	Single-player, Multi-player, PvP, Shared/Split...	False	Dec 30, 2024	windows	173	USD	\$11.99
4	2373910	Fusionist	game	Action, Adventure, RPG, Simulation, Strategy, ...	Single-player, Multi-player, PvP, Online PvP	True	Dec 28, 2024	windows	0	Nan	Nan
...
13210	2472390	A Technician's Nightmare	game	Indie, Simulation	Single-player, Multi-player, Co-op, Online Co...	False	Jan 1, 2024	windows	134	USD	\$1.99
13211	2710260	TVS Sample Box	game	Indie	Single-player, Partial Controller Support, Ste...	True	Dec 31, 2023	windows	0	Nan	Nan
13212	2394480	VR Fitness - R18 DLC	dlc	Simulation, Sports	Single-player, Downloadable Content, Family Sh...	False	Jan 1, 2024	windows	0	USD	\$6.99
13213	2621460	Arcane Fighters	game	Action, Indie	Single-player, Multi-player, PvP, Online PvP, ...	True	Jan 1, 2024	windows, mac	0	Nan	Nan
13214	2228100	Zamakan	game	Action, Casual	Single-player, Steam Achievements, Partial Con...	False	Dec 31, 2023	windows	0	USD	\$0.99

ព័ត៌មានលើកម្ពុជា



steam.info()

```
<class 'pandas.core.frame.DataFrame'>
Index: 13059 entries, 0 to 13214
Data columns (total 11 columns):
 #   Column           Non-Null Count Dtype  
 --- 
 0   id               13059 non-null int64  
 1   name              13059 non-null object 
 2   type              13059 non-null object 
 3   genres             13036 non-null object 
 4   categories        13054 non-null object 
 5   is_free            13059 non-null bool   
 6   release_date       13056 non-null object 
 7   platforms          13059 non-null object 
 8   recommendations    13059 non-null int64  
 9   price_currency     10840 non-null object 
 10  price              10840 non-null object 
dtypes: bool(1), int64(2), object(8)
memory usage: 1.1+ MB
```



ຕົວອຍ່າງຫຼວມູາ

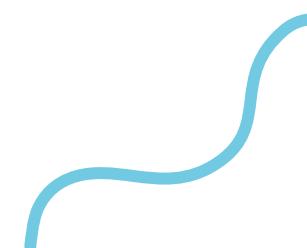


	id	first_release_date	game_modes	genres	name	platforms	slug	language_supports	game_type	age_ratings	summary	keywords	player_perspectives	themes	game_engines	storyline	game_status
0	334974	1735516800	[{"id": 1, "name": "Single player"}]	[{"id": 32, "name": "Indie"}]	Inko Beasts	[{"id": 34, "name": "Android"}]	inko-beasts	[{"id": 1179810, "language": {"id": 7, "name": "..."}]	{"id": 0, "type": "Main Game"}	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
1	331547	1735516800	[{"id": 1, "name": "Single player"}, {"id": 3, ...}	NaN	Funko Fusion: Mega Man Pack Bundle	[{"id": 169, "name": "Xbox Series X S"}]	funko-fusion-mega-man-pack-bundle	NaN	{"id": 3, "type": "Bundle"}	{"rating_category": {"id": 4, "name": "..."}}	You won't feel the blues when the heroes and v...	NaN	NaN	NaN	NaN	NaN	NaN
2	329034	1735516800	[{"id": 1, "name": "Single player"}]	[{"id": 12, "name": "Role-playing (RPG)"}, {"i...}	AI Asylum	[{"id": 6, "name": "PC (Microsoft Windows)"}]	ai-asylum	[{"id": 1153829, "language": {"id": 7, "name": "..."}]	{"id": 0, "type": "Main Game"}	NaN	Immerse yourself in a realm of madness and bon...	[{"id": 44208, "name": "ai-generated text"}]	[{"id": 1, "name": "First person"]]	[{"id": 19, "name": "Horror"}, {"id": 44, "nam..."}]	NaN	NaN	NaN
3	327644	1735516800	NaN	[{"id": 34, "name": "Visual Novel"}]	Doki Doki Brazilian Club	[{"id": 6, "name": "PC (Microsoft Windows)"}]	doki-doki-brazilian-club	NaN	{"id": 5, "type": "Mod"}	NaN	NaN	[{"id": 5, "name": "Text"}]	[{"id": 27, "name": "Comedy"}, {"id": 44, "nam..."}]	[{"id": 394, "name": "renpy"}]	NaN	NaN	
4	327347	1735516800	[{"id": 1, "name": "Single player"}]	[{"id": 9, "name": "Puzzle"}]	2024: Mosaic Retrospective	[{"id": 6, "name": "PC (Microsoft Windows)", ...}	2024-mosaic-retrospective	[{"id": 1146863, "language": {"id": 7, "name": "..."}]	{"id": 0, "type": "Main Game"}	NaN	2024: Mosaic Retrospective is a charity-fundra...	[{"id": 1616, "name": "minesweeper"}, {"id": 1...}]]	[{"id": 3, "name": "Bird view / Isometric"}]	[{"id": 22, "name": "Historical"}, {"id": 27, ...}]]	[{"id": 603, "name": "Unity3D"}]	NaN	NaN

ព័ត៌មានលើកទូទាត់



```
igdb.info()  
  
<class 'pandas.core.frame.DataFrame'>  
Index: 23382 entries, 0 to 23382  
Data columns (total 17 columns):  
 #  Column      Non-Null Count Dtype  
 --  --  
 0  id           23382 non-null int64  
 1  first_release_date  23382 non-null int64  
 2  game_modes    19418 non-null object  
 3  genres        20921 non-null object  
 4  name          23382 non-null object  
 5  platforms     23382 non-null object  
 6  slug          23382 non-null object  
 7  language_supports 19971 non-null object  
 8  game_type     23382 non-null object  
 9  age_ratings   5877 non-null object  
 10 summary       21432 non-null object  
 11 keywords      6433 non-null object  
 12 player_perspectives 8074 non-null object  
 13 themes        13664 non-null object  
 14 game_engines  3727 non-null object  
 15 storyline     2154 non-null object  
 16 game_status   2100 non-null object  
dtypes: int64(2), object(15)  
memory usage: 3.2+ MB
```



ຕົວອຍ່າງຂ້ອມຸລ

RAWG

slug	name	playtime	platforms	stores	released	tba	background_image	rating	rating_top	...	tags	esrb_rating	user_game	reviews_count	community_rating	saturated_color	dominant_color	short_screen
0	wheelie-king-7-motorbike-simulator-3d	Wheelie King 7 - Motorbike simulator 3D	0	[{"platform": {"id": 4, "name": "PC", "slug": "..."}]	2024-12-31	False	https://media.rawg.io/media/screenshots/71e/71e.../s...	0.0	0	...	[{"id": 31, "name": "Singleplayer", "slug": "s..."}]	NaN	NaN	0	0.0	0f0f0f	0f0f0f	["https://media.rawg.io/media/screenshots/71e/71e.../s..."]
1	ice-and-fire-unparalleled	Ice and Fire Unparalleled	0	[{"platform": {"id": 4, "name": "PC", "slug": "..."}]	2024-12-31	False	https://media.rawg.io/media/screenshots/6f5/6f5.../s...	0.0	0	...	[{"id": 31, "name": "Singleplayer", "slug": "s..."}]	NaN	NaN	0	0.0	0f0f0f	0f0f0f	["https://media.rawg.io/media/screenshots/6f5/6f5.../s..."]
2	christmas-drift-delivery-simulator	Christmas Drift - Delivery Simulator	0	[{"platform": {"id": 4, "name": "PC", "slug": "..."}]	2024-12-31	False	https://media.rawg.io/media/screenshots/210/210.../s...	0.0	0	...	[{"id": 31, "name": "Singleplayer", "slug": "s..."}]	NaN	NaN	0	0.0	0f0f0f	0f0f0f	["https://media.rawg.io/media/screenshots/210/210.../s..."]
3	shadowbox-mausoleum-of-natural-history	SHADOWBOX: Mausoleum of Natural History	0	[{"platform": {"id": 4, "name": "PC", "slug": "..."}]	2024-12-31	False	https://media.rawg.io/media/screenshots/ec7/ec.../s...	0.0	0	...	[{"id": 31, "name": "Singleplayer", "slug": "s..."}]	NaN	NaN	0	0.0	0f0f0f	0f0f0f	["https://media.rawg.io/media/screenshots/ec7/ec.../s..."]
4	everything-ends-in-0-2	Everything Ends In 0	0	[{"platform": {"id": 4, "name": "PC", "slug": "..."}]	2024-12-31	False	https://media.rawg.io/media/screenshots/c86/c8.../s...	0.0	0	...	[{"id": 31, "name": "Singleplayer", "slug": "s..."}]	NaN	NaN	0	0.0	0f0f0f	0f0f0f	["https://media.rawg.io/media/screenshots/c86/c8.../s..."]

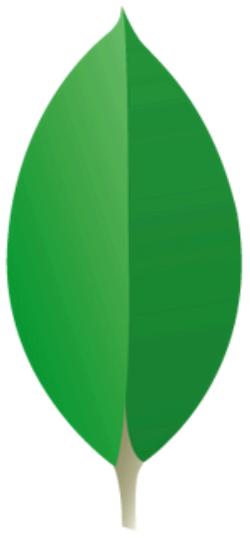
ຕົວອຍ່າງຂ້ອມູນ

RAWG

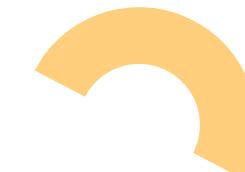
rawg.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 16621 entries, 0 to 16620
Data columns (total 31 columns):
 #   Column           Non-Null Count Dtype  
 --- 
 0   slug             16621 non-null  object 
 1   name              16621 non-null  object 
 2   playtime          16621 non-null  int64  
 3   platforms          16597 non-null  object 
 4   stores             16541 non-null  object 
 5   released            16621 non-null  object 
 6   tba                16621 non-null  bool   
 7   background_image    16574 non-null  object 
 8   rating              16621 non-null  float64
 9   rating_top          16621 non-null  int64  
 10  ratings             16621 non-null  object 
 11  ratings_count        16621 non-null  int64  
 12  reviews_text_count   16621 non-null  int64  
 13  added               16621 non-null  int64  
 14  added_by_status       3280 non-null  object 
 15  metacritic           1 non-null   float64
```

```
16 suggestions_count  16621 non-null  int64  
17 updated              16621 non-null  object 
18 id                   16621 non-null  int64  
19 score                 0 non-null   float64
20 clip                  0 non-null   float64
21 tags                 16443 non-null  object 
22 esrb_rating           188 non-null  object 
23 user_game              0 non-null   float64
24 reviews_count          16621 non-null  int64  
25 community_rating       16378 non-null  float64
26 saturated_color         16621 non-null  object 
27 dominant_color          16621 non-null  object 
28 short_screenshots      16453 non-null  object 
29 parent_platforms        16597 non-null  object 
30 genres                 16621 non-null  object 
dtypes: bool(1), float64(6), int64(8), object(16)
memory usage: 3.8+ MB
```



DATABASE
mongoDB



Setup

All Clusters Get Help KimmieVPN

PREFERENCES

Legacy 2FA

Personalization

Invitations

Organizations

Organizations



To get started, create an organization

Within an organization, you can easily create projects, invite other users, and set up a billing account.

Create an Organization

Learn more about organizations and projects.

Setup

1

← Organizations

Create Organization

Name and Service

Members and Security

Name Your Organization

kimmie

Select Cloud Service

Features

Automated database configuration

MongoDB Atlas



Cloud Manager



Setup

2

Add Security Contact Information

The designated Atlas security contact will receive security-related notifications, including notifications from the MongoDB Security Team. Note that this contact point is for notifications only and is not authorized for security decisions or approvals. [Learn More](#)

 Email address

Optional

Require IP Access List for the Atlas Administration API



This will force all Atlas Administration API operations for your organization to originate from an IP Address added to your Access List by the API Key. [Docs](#)

[Back](#)[Cancel](#)[Create Organization](#)

Setup

3

Name Your Project

Project names have to be unique within the organization (and other restrictions).

DataEng

Add Tags (Optional)

Use tags to efficiently label and categorize your projects. A project can have a maximum of 50 tags. You can modify tags for the project later. [Learn more](#)

Key	Value	Actions
Select a key or enter your own	:	Select a value or enter your own 
+ Add tag		
		0 TAGS

Cancel

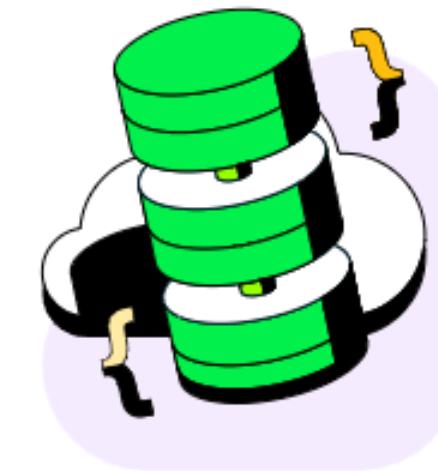
Next

Setup

4

KIMMIE > DATAENG

Overview



Create a cluster

Choose your cloud provider, region, and specs.

+ Create

Setup

5

Deploy your cluster

Use a template below or set up advanced configuration options. You can also edit these configuration options once the cluster is created.

M10

\$0.09/hour

Dedicated cluster for development environments and low-traffic applications.

STORAGE

RAM

vCPU

10 GB

2 GB

2 vCPUs

Flex

From \$0.011/hour

Up to \$30/month

For application development and testing, with on-demand burst capacity for unpredictable traffic.

STORAGE

RAM

vCPU

5 GB

Shared

Shared

Free

For learning and exploring MongoDB in a cloud environment.

STORAGE

RAM

vCPU

512 MB

Shared

Shared

 **Free forever!** Your free cluster is ideal for experimenting in a limited sandbox. You can upgrade to a production cluster anytime.

Configurations

Name

You cannot change the name once the cluster is created.

Cluster0

Provider



Region

Singapore (ap-southeast-1) ★ ▾

I'll do this later

Quick setup

Automate security setup ⓘ

Preload sample dataset ⓘ

Go to Advanced Configuration

Create Deployment

Setup

6

Connect to Cluster0

- 1 Set up connection security
- 2 Choose a connection method
- 3 Connect

You need to secure your MongoDB Atlas cluster before you can use it. Set which users and IP addresses can access your cluster now. [Read more](#)

1. Add a connection IP address

Your current IP address (202.12.97.183) has been added to enable local connectivity. Only an IP address you add to your Access List will be able to connect to your project's clusters. Add more later in [Network Access](#).

2. Create a database user

This first user will have [atlasAdmin](#) permissions for this project.

We autogenerated a username and password. You can use this or create your own.

i You'll need your database user's credentials in the next step. Copy the database user password.

Username

kimmievpn

Password

123456789data

HIDE

Click to Copy Passw



Create Database User

Close

Choose a connection method

Connect to Cluster0

- 1 Set up connection security
- 2 Choose a connection method
- 3 Connect

Connect to your application



Drivers

Access your Atlas data using MongoDB's native drivers (e.g. Node.js, Go, etc.)

Access your data through tools



Compass

Explore, modify, and visualize your data with MongoDB's GUI



Shell

Quickly add & update data using MongoDB's Javascript command-line interface



MongoDB for VS Code

Work with your data in MongoDB directly from your VS Code environment



Atlas SQL

Easily connect SQL tools to Atlas for data analysis and visualization

x

Go Back

Close

Setup

8

Connect to Cluster0

Set up connection security Choose a connection method Connect

Connecting with MongoDB Compass

I don't have MongoDB Compass installed I have MongoDB Compass installed

1. Choose your version of Compass
1.38 or later

See your Compass version in "About Compass"

2. Copy the connection string, then open MongoDB Compass
Use this connection string in your application

```
mongodb+srv://kimmievpn:<db_password>@cluster0.eyt9p.mongodb.net/
```

Replace <db_password> with the password for the **kimmievpn** user. Ensure any options are URL encoded. You can edit your database user password in [Database Access](#).

RESOURCES

[Connect with Compass](#) [Import and Export Data](#)
[Access your Database Users](#) [Troubleshoot Connections](#)

Go Back Done

Setup

Cluster0

VERSION 8.0.5 REGION AWS Singapore (ap-southeast-1)

Overview Real Time Metrics Collections Atlas Search Query Insights Performance Advisor Online Archive Cmd Line Tools Infrastructure As Code

DATABASES: 1 COLLECTIONS: 3

VIEW YOUR DATA

REFRESH

+ Create Database

Search Namespaces

GameDB

IGDB

RAWG

Steam

GameDB.IGDB

STORAGE SIZE: 11.57MB LOGICAL DATA SIZE: 31.59MB TOTAL DOCUMENTS: 23383 INDEXES TOTAL SIZE: 680KB

Find

Indexes

Schema Anti-Patterns 0

Aggregation

Search Indexes

Generate queries from natural language in Compass

INSERT DOCUMENT

Filter

Type a query: { field: 'value' }

Reset

Apply

Options ▾

QUERY RESULTS: 1-20 OF MANY

```
_id: ObjectId('67d272614844dca8adac46b2')
id: 334974
first_release_date: 1735516800
game_modes: "[{"id": 1, "name": "Single player"}]"
genres: "[{"id": 32, "name": "Indie"}]"
name: "Inko Beasts"
platforms: "[{"id": 34, "name": "Android"}]"
slug: "inko-beasts"
language_supports: "[{"id": 1179810, "language": {"id": 7, "name": "English"}}]"
game_type: {"id": 0, "type": "Main Game"}
age_ratings: NaN
summary: NaN
keywords: NaN
player_perspectives: NaN
themes: NaN
game_engines: NaN
storyline: NaN
game_status: NaN
```



MongoDB Compass

New Connection

Manage your connection settings

URI 

mongodb+srv://kimmievpn:123456789data@cluster0.eyt9p.mongodb.net/

Edit Connection String 

Name

cluster0.eyt9p.mongodb.net

Color

No Color

Favorite this connection

Favoriting a connection will pin it to the top of your list of connections

» Advanced Connection Options

How do I find my connection string in Atlas?

If you have an Atlas cluster, go to the Cluster view. Click the 'Connect' button for the cluster to which you wish to connect.

[See example ↗](#)

How do I format my connection string?

[See example ↗](#)

Cancel

Save

Connect

Save & Connect

MongoDB Compass

Compass

Steam RAWG IGDB +

cluster0.eyt9p.mongodb.net > GameDB > Steam

Documents 13.2K Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

Explain Reset Find Options

+ ADD DATA EXPORT DATA UPDATE DELETE

25 1 - 25 of 13215

`_id: ObjectId('67d282284844dca8adace2fb')`
`id : 2373910`
`name : "Fusionist"`
`type : "game"`
`genres : "Action, Adventure, RPG, Simulation, Strategy, Free To Play, Early Access"`
`categories : "Single-player, Multi-player, PvP, Online PvP"`
`is_free : true`
`release_date : "Dec 28, 2024"`
`platforms : "windows"`
`recommendations : 0`
`price_currency : NaN`
`price : NaN`

`_id: ObjectId('67d282284844dca8adace2fc')`
`id : 3323500`
`name : "Half Away"`
`type : "game"`
`genres : "Adventure, Casual, Indie"`
`categories : "Single-player, Steam Achievements, Full controller support, Steam Cloud Saving"`
`is_free : false`
`release_date : "Dec 28, 2024"`
`platforms : "windows, mac"`
`recommendations : 0`
`price_currency : "USD"`
`price : "$6.99"`

`_id: ObjectId('67d282284844dca8adace2fd')`
`id : 3075710`
`name : "Nao's Love Triangle: Hentai Puzzle 18+"`

Search connections

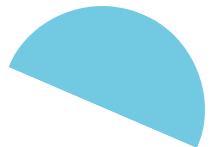
cluster0.eyt9p.mongodb.net GameDB Steam admin config local

Cleansing



นำข้อมูลจากทั้ง 3 แหล่งมารวมเข้าด้วยกัน

```
steam = steam.drop_duplicates()  
rawg = rawg.drop_duplicates()  
igdb = igdb.drop_duplicates()  
  
merge = steam.merge(rawg, left_on='name', right_on='name')  
merge = merge.merge(igdb, left_on='name', right_on='name')  
merge = merge.drop_duplicates(subset=['name'], keep='first')
```



คัดกรองเอาอันที่เป็น game เท่านั้นมาใช้งาน

```
merge = merge[merge["type"] == "game"]
```



ดึงค่าที่ยังเป็น Array / List ออกมา

language_supports

[{"id": 1153829, "language": {"id": 7, "name": "...
[{"id": 1117303, "language": {"id": 7, "name": "...
[{"id": 1099809, "language": {"id": 7, "name": "...
[{"id": 998474, "language": {"id": 16, "name": "...
[{"id": 699950, "language": {"id": 7, "name": ...
...
[{"id": 895181, "language": {"id": 7, "name": ...
[{"id": 883566, "language": {"id": 7, "name": ...
[{"id": 878174, "language": {"id": 7, "name": ...
[{"id": 873982, "language": {"id": 7, "name": ...
[{"id": 868884, "language": {"id": 7, "name": ...

language_supports

English
English
English
Chinese (Simplified), Chinese (Traditional), E...
Chinese (Simplified), English, Japanese, Korea...
...
English
English
English
English
English, Thai

นำ genres จากทั้ง 3 แหล่ง
เอามารวมกันเป็น 1 column

genres

RPG, Action, Adventure, Simulation, Casual, In...
Indie, Free To Play
Indie, RPG, Simulation, Casual
Indie, Action, Casual
RPG, Action, Adventure, Free To Play, Early Ac...
...
RPG, Action, Adventure, Early Access, Indie
Indie, Adventure, Action, Strategy
Adventure
Indie, Adventure, Action, Casual
Indie, Simulation

นำ platforms จากทั้ง 3 แหล่งรวมกันเป็น 1 column

platforms
Windows
Windows
Linux, Mac, Windows
Windows
Windows
...
Windows
Linux, Nintendo Switch, Windows
Windows
Windows
Windows

จัดการค่าของ price ให้เป็น float

price_currency	price
USD	\$6.99
NaN	NaN
USD	\$2.99
USD	\$11.99
NaN	NaN
...	...
NaN	NaN
USD	0.00

price_currency	price
USD	6.99
USD	0.00
USD	2.99
USD	11.99
USD	0.00
...	...
USD	0.00
USD	9.99
USD	3.99
USD	4.99
USD	1.99

ทำ OrdinalEncoder โดยใช้ค่าจำแนบ recommendations

```
def level(x):
    if x >= 10000:
        return "Very High"
    elif x >= 5000:
        return "High"
    elif x >= 1000:
        return "Medium"
    elif x >= 100:
        return "Low"
    elif x >= 1:
        return "Very Low"
    else:
        return "None"

merge['recommendations_level'] = merge['recommendations'].apply(level)

categories = ["Very High", "High", "Medium", "Low", "Very Low", "None"]
datadict = {category: idx for idx, category in enumerate(categories[0])}
ordinal_encoder = OrdinalEncoder(categories=categories)
merge[['recommendations_level']] = ordinal_encoder.fit_transform(merge[['recommendations_level']])

# แสดงผล
merge[['recommendations', 'recommendations_level']].head()
```

ผลลัพธ์ OrdinalEncoder โดยใช้ค่าจำนวน recommendations

recommendations	recommendations_level
0	5.0
0	5.0
0	5.0
0	5.0
591	3.0
108	3.0
0	5.0
246	3.0
33675	0.0
0	5.0

Meaning	Encoded_Value
0 Very High	0
1 High	1
2 Medium	2
3 Low	3
4 Very Low	4
5 None	5

แปลงค่า release แล้วนำมายูบรวมกันเป็น 1 columns โดยใช้ steam เป็นหลัก
แล้วนำมาคำนวณแยกทำเป็น quarter , year เพื่อใช้ในการคำนวณต่อ

release	quarter	year
2024-07-09	3	2024
2024-07-19	3	2024
2024-04-03	2	2024
2024-02-21	1	2024
2024-01-25	1	2024
2024-01-13	1	2024
2024-08-27	3	2024
2024-09-09	3	2024
2024-07-18	3	2024
2024-05-20	2	2024

Output Database

Connections Edit View Collection Help

Compass

My Queries

CONNECTIONS (1)

Search connections

cluster0.eyt9p.mongodb.net GameDB Clean_Data

Clean_Data +

Documents 7.3K Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

Explain Reset Find Options

+ ADD DATA EXPORT DATA UPDATE DELETE

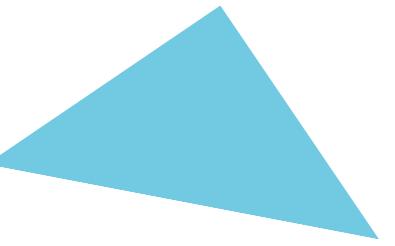
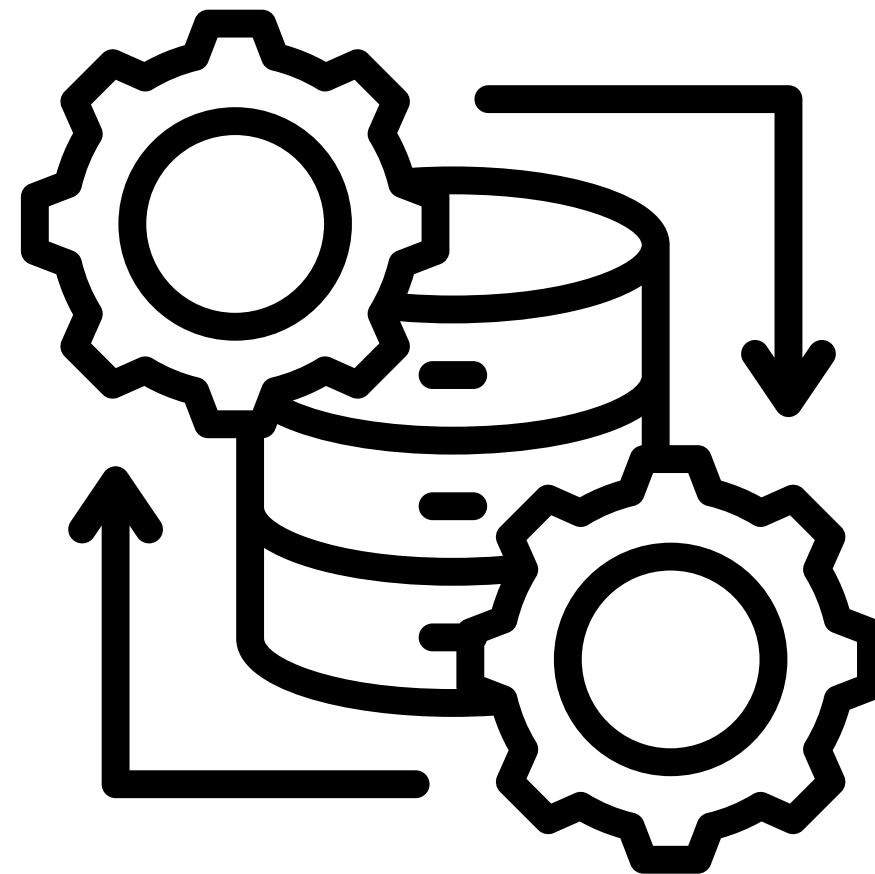
25 1 - 25 of 7338

`_id: ObjectId('67d2d3188ed9487c6f75a823')
name : "AI Asylum"
platforms : "Windows"
categories : "Single-player, Family Sharing"
genres : "RPG, Action, Adventure, Simulation, Casual, Indie, Strategy"
themes : "Horror, Romance"
language_supports : "English"
is_free : false
price_currency : "USD"
price : 6.99
stores : "Steam"
recommendations : 0
steam_id : 3282930
igdb_id : 329034
rawg_id : 995495
release : 2024-12-30T00:00:00.000+00:00
quarter : 4
year : 2024
recommendations_level : 5`

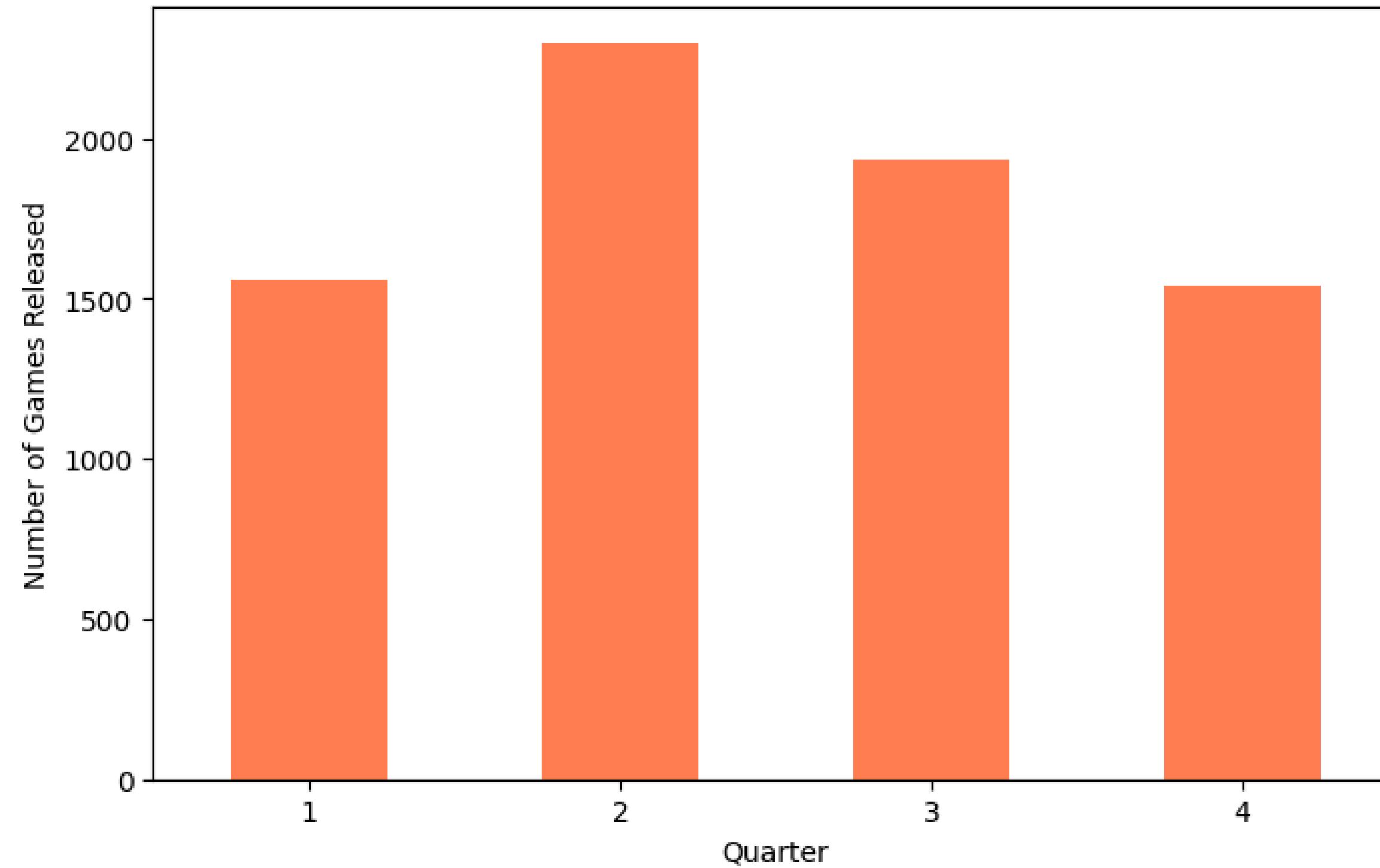
`_id: ObjectId('67d2d3188ed9487c6f75a824')
name : "Conscience"
platforms : "Windows"
categories : "Single-player"
genres : "Indie, Free To Play"
themes : "Mystery"
language_supports : "English"
is_free : true
price_currency : "USD"`

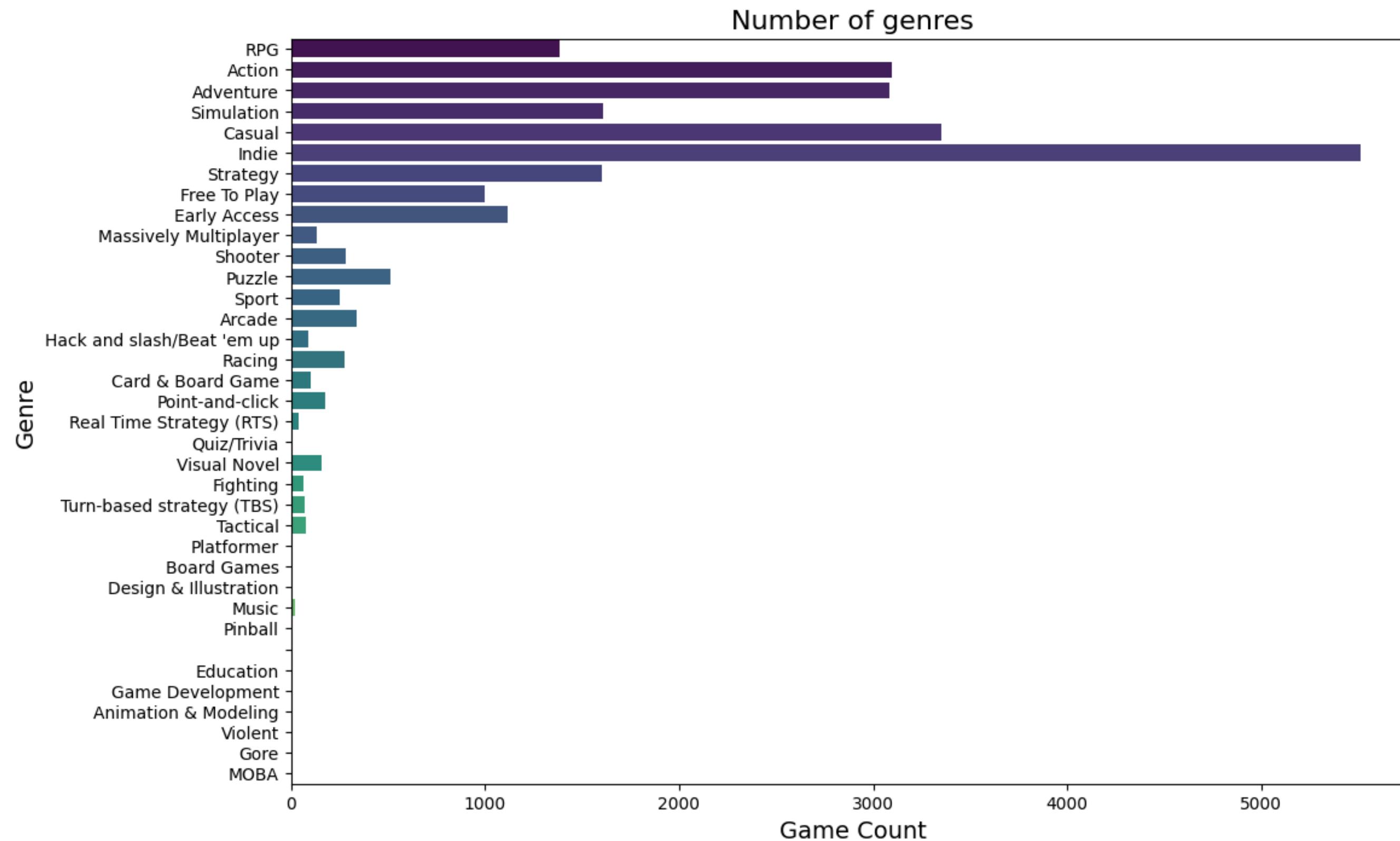
The screenshot shows the Compass MongoDB interface. On the left, there's a sidebar with 'Connections' (1), 'My Queries', and a search bar. Below that is a tree view of databases and collections: cluster0.eyt9p.mongodb.net (selected) containing GameDB, which has sub-collections Clean_Data, Encode, IGDB, RAWG, Steam, and admin, config, local. The main area shows the 'Clean_Data' collection with 7.3K documents. It has tabs for 'Documents', 'Aggregations', 'Schema', 'Indexes' (1), and 'Validation'. A search bar at the top says 'Type a query: { field: 'value' } or [Generate query](#)'. Below it are buttons for '+ ADD DATA', 'EXPORT DATA', 'UPDATE', and 'DELETE'. The document viewer shows two documents. The first document has fields like _id, name (AI Asylum), platforms (Windows), categories (Single-player, Family Sharing), genres (RPG, Action, Adventure, Simulation, Casual, Indie, Strategy), themes (Horror, Romance), language_supports (English), is_free (false), price_currency (USD), price (6.99), stores (Steam), recommendations (0), steam_id (3282930), igdb_id (329034), rawg_id (995495), release (2024-12-30T00:00:00.000+00:00), quarter (4), year (2024), and recommendations_level (5). The second document has similar fields but different values, such as name (Conscience), platforms (Windows), categories (Single-player), genres (Indie, Free To Play), themes (Mystery), language_supports (English), is_free (true), and price_currency (USD). The bottom panel has buttons for '25', '1 - 25 of 7338', and navigation arrows.

Processing

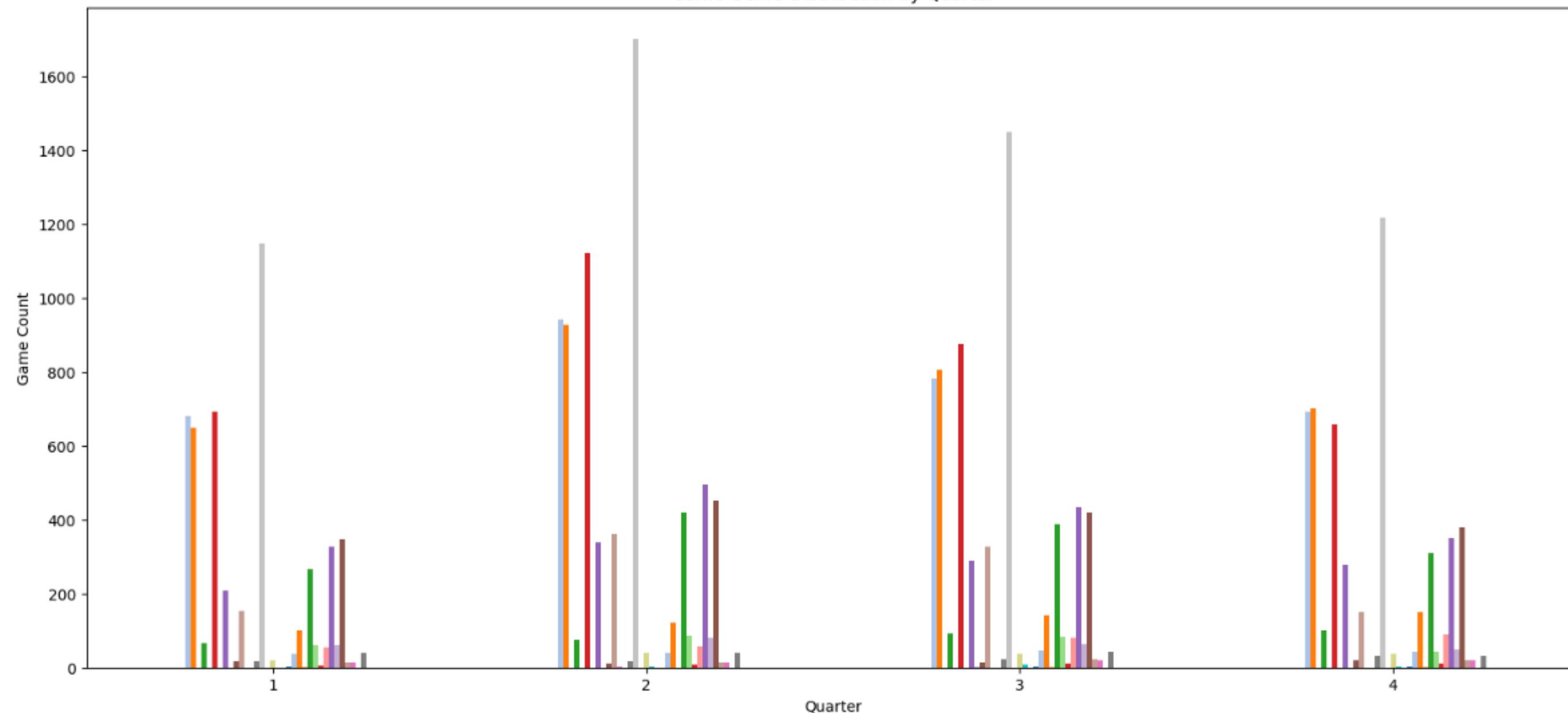


Seasonal Game Releases in 2024





Game Genre Distribution by Quarter



THANK YOU
FOR YOUR ATTENTION