

NOMBRE: Paúl Hidalgo

1.- Importar el csv a SQLite (2 puntos)

Importar las librerías necesarias

```
#1.- Importar el csv a SQLite
✓ 0.0s

import pandas as pd
✓ 0.0s

import sqlite3 as sq
✓ 0.0s
```

Leer el csv

```
movies_df = pd.read_csv("imdb_movies.csv", index_col="names")
✓ 0.1s

movies_df
✓ 0.0s
```

| names | date_x | score | genre | overview | crew | orig_title | status | orig_lang | budget_x | revenue | country |
|---|------------|-------|---|--|---|---|----------|--------------------|-------------|--------------|---------|
| Creed III | 03/02/2023 | 73.0 | Drama, Action | After dominating the boxing world, Adonis Cree... | Michael B. Jordan, Adonis Creed, Tessa Thompo... | Creed III | Released | English | 75000000.0 | 2.716167e+08 | AU |
| Avatar: The Way of Water | 12/15/2022 | 78.0 | Science Fiction, Adventure, Action | Set more than a decade after the events of the... | Sam Worthington, Jake Sully, Zoe Saldña, Neyt... | Avatar: The Way of Water | Released | English | 460000000.0 | 2.316795e+09 | AU |
| The Super Mario Bros. Movie | 04/05/2023 | 76.0 | Animation, Adventure, Family, Fantasy, Comedy | While working underground to fix a water main... | Chris Pratt, Mario (voice), Anya Taylor-Joy, P... | The Super Mario Bros. Movie | Released | English | 100000000.0 | 7.244590e+08 | AU |
| Mummies | 01/05/2023 | 70.0 | Animation, Comedy, Family, Adventure, Fantasy | Through a series of unfortunate events, three ... | Oscar Barberán, Thut (voice), Ana Esther Albor... | Momias | Released | Spanish, Castilian | 12300000.0 | 3.420000e+07 | AU |
| Supercell | 03/17/2023 | 61.0 | Action | Good-hearted teenager William always lived in ... | Skeet Ulrich, Roy Cameron, Anne Heche, Dr Quin... | Supercell | Released | English | 77000000.0 | 3.409420e+08 | US |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 20th Century Women | 12/28/2016 | 73.0 | Drama | In 1979 Santa Barbara, California, Dorothea F... | Annette Bening, Dorothea Fields, Lucas Jade Zu... | 20th Century Women | Released | English | 7000000.0 | 9.353729e+06 | US |
| Delta Force 2: The Colombian Connection | 08/24/1990 | 54.0 | Action | When DEA agents are taken captive by a ruthless... | Chuck Norris, Col. Scott McCoy, Billy Drago, R... | Delta Force 2: The Colombian Connection | Released | English | 9145817.8 | 6.698361e+06 | US |

Conectarse a la base, enviar los documentos y verificar los mismos

```
con = sq.connect("database.db")
✓ 0.0s

movies_df.to_sql('names', con, if_exists='append', index=False)
✓ 12s
10178

c = con.cursor()
c.execute('SELECT * FROM names'). fetchall()
✓ 0.2s
```

```
[('03/02/2023 ',
73.0,
'Drama,\xa0Action',
'After dominating the boxing world, Adonis Creed has been thriving in both his career and family life. When a childhood friend and former boxing prodigy, Damien Anderson, resurfaces
"Michael B. Jordan, Adonis Creed, Tessa Thompson, Bianca Taylor, Jonathan Majors, Damien Anderson, Wood Harris, Tony "Little Duke" Evers, Phylicia Rashad, Mary Anne Creed, Mila Davis
"Creed III",
'Released',
'English',
75000000.0,
27161668.0,
'AU'),
('12/15/2022 ',
78.0,
'Science Fiction,\xa0Adventure,\xa0Action',
'Set more than a decade after the events of the first film, learn the story of the Sully family (Jake, Neytiri, and their kids), the trouble that follows them, the lengths they go to
"Sam Worthington, Jake Sully, Zoe Saldña, Neytiri, Sigourney Weaver, Kiri / Dr. Grace Augustine, Stephen Lang, Colonel Miles Quaritch, Kate Winslet, Ronal, Cliff Curtis, Tonowari, J
"Avatar: The Way of Water",
'Released',
'English',
```

2.- Transformación de cada elemento del csv en json y carga en couchdb mediante código. (8 puntos)

Importar las librerías necesarias, abrir los documentos y guardar todos los datos del csv en un arreglo el cual se encargará de guardar toda la información en el json.

```
#2.- Transformación de cada elemento del csv en json y carga en couchdb mediante código
✓ 0.0s

import json
✓ 0.0s

import csv
✓ 0.0s

csvfile = open('imdb_movies.csv', 'r', encoding='utf-8')
jsonfile = open('imdb_movies.json', 'w')

leer = csv.DictReader(csvfile)

json_movies = []

for i in leer:
    json_movies.append(i)

json.dump(json_movies, jsonfile)

jsonfile.close()
csvfile.close()
✓ 0.7s
```

Crear una base de datos vacía en el couchdb para el almacenamiento de los datos.

Importar las librerías para conectarse al couchdb, para poder realizar el envío de todos los datos del json.

```
✓ import couchdb
import json

couch = couchdb.Server('http://admin:admin@localhost:5984')
db = couch['movies']

✓ with open('imdb_movies.json', 'r') as jsonfile:
    json_carga = json.load(jsonfile)

✓ for doc in json_carga:
    db.save(doc)
✓ 14m 7.1s
```

Comprobación de que se logró guardar todos los datos

| | | | | |
|--------|--------|-------|----|---------|
| movies | 8.9 MB | 10179 | No | ← → ↻ 📄 |
|--------|--------|-------|----|---------|

3.- Creación de una réplica tipo “one time” en un sentido (1 punto)

| | | |
|-----------------|-----------------------|---|
| Type: | Local database | ▼ |
| Name: | movies | ▼ |
| Authentication: | Username and password | |
| | admin | |
| | | |

Target

| | | |
|-----------------|-------------------------|---|
| Type: | Existing local database | ▼ |
| Name: | movies2 | ▼ |
| Authentication: | Username and password | |
| | admin | |
| | | |

Options

| | | |
|-----------------------|----------------------------------|---|
| Replication type: | One time | ▼ |
| Replication document: | 5d233062d27c35709c053547004118d4 | ✕ |

↔ Start Replication

Clear

4.- Creación de una réplica tipo “Continuous” en un sentido (1 punto)

| | | |
|-----------------|-----------------------|---|
| Type: | Local database | ▼ |
| Name: | movies | ▼ |
| Authentication: | Username and password | |
| | admin | |
| | ***** | |

Target

| | | |
|-----------------|-------------------------|---|
| Type: | Existing local database | ▼ |
| Name: | movies3 | ▼ |
| Authentication: | Username and password | |
| | admin | |
| | ***** | |

Options

| | | |
|-----------------------|----------------------------------|---|
| Replication type: | Continuous | ▼ |
| Replication document: | 5d233062d27c35709c053547004126c3 | ✕ |

↔ Start Replication

Clear

5.- Creación de una réplica tipo “Continuous” en dos sentidos (2 punto)

| | |
|-----------------|-----------------------|
| Type: | Local database |
| Name: | movies3 |
| Authentication: | Username and password |
| | admin |
| | |

Target

| | |
|-----------------|-------------------------|
| Type: | Existing local database |
| Name: | movies |
| Authentication: | Username and password |
| | admin |
| | |

Options

| | |
|-----------------------|----------------------------------|
| Replication type: | Continuous |
| Replication document: | 5d233062d27c35709c05354700412eee |

↔ Start Replication

Clear

6.- Creación de una vista en CouchDB que retorne score, name y revenue (4 puntos)

?

movies

?

```
1 function (doc) {
2   if(doc.score && doc.names && doc.revenue){
3     emit(null, {score: doc.score, name: doc.names, revenue: doc.revenue})
4   }
5 }
```

7.- Exportación del json del item anterior (2 puntos)

```
total_rows=10178,"offset":0,"rows":
[{"id": "5d233862d27c35780b0c53470000c4", "key": null, "value": {"score": "75.0", "name": "K.G.F: Chapter 1", "revenue": "637739380.0"}, "type": "movie"},
{"id": "5d233862d27c35780b0c53470000175", "key": null, "value": {"score": "56.0", "name": "Saints and Soldiers: Airborne Creed", "revenue": "60825993.8"}, {"id": "5d233862d27c35780b0c53470000176", "key": null, "value": {"score": "72.0", "name": "The Forthnight Super Hero", "revenue": "775993.0"}, {"id": "5d233862d27c35780b0c5347000021ba", "key": null, "value": {"score": "56.0", "name": "Hell Fest", "revenue": "18294883.8"}, {"id": "5d233862d27c35780b0c5347000022f1", "key": null, "value": {"score": "72.0", "name": "The Lincoln Lawyer", "revenue": "87148508.0"}, {"id": "5d233862d27c35780b0c534700002739", "key": null, "value": {"score": "54.0", "name": "Erotic Ghost Story III", "revenue": "1201428.0"}, {"id": "5d233862d27c35780b0c534700002740", "key": null, "value": {"score": "72.0", "name": "Lost Boys: The Tribe", "revenue": "19213344.6"}, {"id": "5d233862d27c35780b0c534700003433", "key": null, "value": {"score": "54.0", "name": "Love & Gelato", "revenue": "3546598.4"}, {"id": "5d233862d27c35780b0c5347000039b0", "key": null, "value": {"score": "59.0", "name": "Weaponized", "revenue": "84246345.4"}, {"id": "5d233862d27c35780b0c534700003bf6", "key": null, "value": {"score": "61.0", "name": "The Little Rascals Save the Day", "revenue": "97708392.4"}, {"id": "5d233862d27c35780b0c534700003f7e", "key": null, "value": {"score": "54.0", "name": "My Name Is Nobody", "revenue": "10847666.0"}, {"id": "5d233862d27c35780b0c534700005048", "key": null, "value": {"score": "56.0", "name": "Return to Home on Haunted Hill", "revenue": "390377803.8"}, {"id": "5d233862d27c35780b0c53470000539c", "key": null, "value": {"score": "71.0", "name": "The Agony and the Ecstasy", "revenue": "4000000.0"}, {"id": "5d233862d27c35780b0c534700005627", "key": null, "value": {"score": "68.0", "name": "Uncle Buck", "revenue": "7923000.0"}, {"id": "5d233862d27c35780b0c5347000060ee", "key": null, "value": {"score": "52.0", "name": "Ghost Shark", "revenue": "811697551.0"}, {"id": "5d233862d27c35780b0c5347000060bc", "key": null, "value": {"score": "64.0", "name": "Eurovision Song Contest: The Story of Fire Saga", "revenue": "44123292.2"}, {"id": "5d233862d27c35780b0c5347000075d3", "key": null, "value": {"score": "48.0", "name": "Children of the Corn II: The Final Sacrifice", "revenue": "6980986.0"}, {"id": "5d233862d27c35780b0c53470000805e", "key": null, "value": {"score": "63.0", "name": "Yara & Lea", "revenue": "10847666.0"}, {"id": "5d233862d27c35780b0c53470000805f", "key": null, "value": {"score": "73.0", "name": "Little Women", "revenue": "21883836.0"}, {"id": "5d233862d27c35780b0c534700009cbe", "key": null, "value": {"score": "73.0", "name": "Little Men", "revenue": "50003303.0"}, {"id": "5d233862d27c35780b0c53470000aa7f", "key": null, "value": {"score": "68.0", "name": "Under the Tuscan Sun", "revenue": "57490024.2"}, {"id": "5d233862d27c35780b0c53470000b02e", "key": null, "value": {"score": "68.0", "name": "The Four and the Dying", "revenue": "357687.0"}, {"id": "5d233862d27c35780b0c53470000c2e2", "key": null, "value": {"score": "57.0", "name": "Death Wish 4: The Crackdown", "revenue": "6680310.0"}, {"id": "5d233862d27c35780b0c53470000c53c", "key": null, "value": {"score": "58.0", "name": "This Is 40", "revenue": "88211556.0"}, {"id": "5d233862d27c35780b0c53470000cf66", "key": null, "value": {"score": "54.0", "name": "Dennis the Menace Strikes Again", "revenue": "350828991.4"}, {"id": "5d233862d27c35780b0c53470000d09b", "key": null, "value": {"score": "69.0", "name": "InsomnIA", "revenue": "113624959.0"}, {"id": "5d233862d27c35780b0c53470000d766", "key": null, "value": {"score": "66.0", "name": "The Sex Of The Angels", "revenue": "735949885.8"}, {"id": "5d233862d27c35780b0c53470000ddcf", "key": null, "value": {"score": "51.0", "name": "London Fields", "revenue": "43732.0"}, {"id": "5d233862d27c35780b0c53470000e03f", "key": null, "value": {"score": "73.0", "name": "La Belle Noiseuse", "revenue": "75165407.4"}, {"id": 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"52.0", "name": "The Quest For Tom Sawyer's Gold", "revenue": "242235692.0"}, {"id": "5d233862d27c35780b0c5347000016018", "key": null, "value": {"score": "68.0", "name": "The Rain Forest", "revenue": "84246345.4"}, {"id": "5d233862d27c35780b0c5347000016cd", "key": null, "value": {"score": "71.0", "name": "No Mercy", "revenue": "36749604.0"}, {"id": "5d233862d27c35780b0c534700001731c", "key": null, "value": {"score": "71.0", "name": "Doraemon: Nobita's Great Adventure of the Mermaid King", "revenue": "83666340.0"}, {"id": "5d233862d27c35780b0c534700001820", "key": null, "value": {"score": "78.0", "name": "Scooby-Doo! 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