

**Computer Science Department**  
**University of Computer & Emerging Sciences (FAST-NU)**

HOME WORK ASSIGNMENT COVER SHEET

COURSE TITLE DATABASE SYSTEMS COURSE CODE CS219

INSTRUCTORS Teaching Team TYPE

ASSIGNMENT NO 3

ASSIGNMENT Understanding "sql"

HAND OUT DATE 26-nov-2021 DUE DATE 12-dec

2021

Aim and Rules	% Mark
<p>The purpose of this assignment is to improve your skills of database programming, selection of keys, and report writing skills.</p> <p><b>Submission:</b> Only soft copy in pdf is required. Any mistake or missing material will lead to the reduction of 5% marks.</p> <p><b>Group of max 2 students is allowed, individual work is acceptable in extreme situations and with prior written (by email) permission of theory course teacher. Such permission should be sought at least 5 days before the deadline of the assignment.</b></p> <p><b>Any type of plagiarism will lead to 0% marks of both/all parties.</b></p> <p><b>Cross Section Groups are not allowed.</b></p>	

TO BE COMPLETED BY STUDENT (TEAM LEAD) GROUP MEMBERS ID

Roll # and Name: Abdullah Faisal (19I-1911)

**Section:** C

DECLARATION: We/I declare that this Coursework is our group's own work SIGNATURES (All members) Abdullah Faisal & Jiyad Khan

ID 19I-1911 SEC#C

ID 19I-1771 SEC#C

GRADE/ MARK AWARDED	COMMENTS

INSTRUCTOR'S SIGNATURE DATE

**Detailed Description:**

<https://www.kaggle.com/shivamb/disney-movies-and-tv-shows>

- 1) Read and Understand the details of the dataset on given URL.
- 2) Plan the entities, their keys and attributes
- 3) Create a database in Oracle, create tables for all the identified entities having keys and attributes.
- 4) Download the dataset and load into the created tables. You can use SQL\*Loader utility for this purpose. It is a very simple and easy to use utility which can load the data from csv file(s) into Oracle database.
- 5) Then apply 22 different SQL queries to get various insights of the dataset.

**Deliverables: A report containing following items:**

- 1) Snapshot of the Database Schema designed by your group. The database should contain 4 or more tables. A detailed description of the database schema is required so that a reader could know the idea behind creation of each table.
- 2) Keys and attributes of each table should be clearly shown along with their datatypes.
- 3) SQL queries to create database, tables, keys, and attributes.
- 4) Code of SQL\*Loader to load the data into the created tables. Add snapshots of codes (both creation and loading )on pdf file.
- 5) Submit .txt files that has all code for creating and loading of tables
- 6) SQL queries and their result along with the 2-3 liner description which tell the purpose of each query and tells what information we get from each query and obtained results (attach snapshots of output ). You can create queries of your own but they should be your own queries and should not be copied from other groups. The count of 18 queries is divided as below:
  - i. 3 Queries which use various aggregation functions
  - ii. 3 Queries which use various aggregation functions and involve more than 2 tables (database join)

iii. 3 Nested queries

iv. 3 queries involving outer joins and aggregation functions

v. 3 queries involving set operators.

vi. 3 queries to compare the difference in execution time of different types of joins like outer join vs equi join etc. The execution time must be obtained from the system and should be displayed along with the output.

Other queries

1- Display all the movies/tv shows directed by Jason Sterman

2- Display all the movies/tv shows with genre “Comedy”

3- Display all the movies/tv shows with rating “PG-13”

4- Display all the movies/tv shows in which actor “Johnny Depp” has worked

7) Also make an interface using php which will take the queries from user and display the answers of the query. There will be a single webpage. Attach all the snap shots of webpage and results on pdf document

**Note:**

1) A group is likely to get more marks based on nicely written report, well presented material, and technically sound queries.

2) Learn SQL\* Loader yourself. It is very easy to learn and use.

3) Individual work or group of 1 is acceptable in extreme situations and with prior written (by email) permission of theory course teacher. Such permission should be sought at least 5 days before the deadline of the assignment. The reply from the course teacher must be placed as a screenshot in the report to show the permission

# Report

Note: After consultation with our Professor Sir Kifayat Alizai, we were told that using Oracle and SQL Loader is not required as long as the rest of the requirements are fulfilled. Hence, we have done our work in PHPMYADMIN.

## 1) Database Schema & 2) Keys, Attributes and Datatypes

The screenshot shows the phpMyAdmin interface for a MySQL server. The left sidebar lists databases: New, assignment3, bbb, hr, information\_schema, lab4, lab7, mvp-test1, mysql, performance\_schema, and sys. The assignment3 database is selected. The main area displays the structure of the database with a table list. The table list table has columns: Table, Action, Rows, Type, Collation, Size, and Overhead. The data is as follows:

Table	Action	Rows	Type	Collation	Size	Overhead
basic_info	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	1,450	MyISAM	latin1_swedish_ci	87.3 KiB	-
crew	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	1,450	MyISAM	utf8_general_ci	140.7 KiB	-
dates	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	1,450	MyISAM	latin1_swedish_ci	77.1 KiB	-
disney_plus_titles	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	1,450	MyISAM	utf8_general_ci	375.8 KiB	-
further_info	<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Empty</a> <a href="#">Drop</a>	1,450	MyISAM	latin1_swedish_ci	232.2 KiB	-
5 tables	Sum	7,250	MyISAM	latin1_swedish_ci	913.1 KiB	0 B

Below the table list, there are buttons for 'Check all' and 'With selected'. A 'Create table' button is also present with fields for 'Name:' and 'Number of columns: 4'. A 'Go' button is located at the bottom right of the 'Create table' section.

Description: A total of 4 tables were created, while the fifth named "disney\_plus\_titles" was automatically made when we imported the CSV file from the import button functionality given in PHPMYADMIN. We used this table to divide the data into the 4 tables that we created based on similar attributes. We used show\_id as the key in each table, for it was the sole unique feature in the records. Below are the details of each of the 5 tables.

The screenshot shows the phpMyAdmin interface for the MySQL database 'assignment3'. The current table is 'disney\_plus\_titles'. The structure view displays 12 columns with the following details:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	show_id	varchar(5)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	type	varchar(7)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	title	varchar(79)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	director	varchar(51)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
5	cast	varchar(112)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
6	country	varchar(137)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
7	date_added	varchar(18)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
8	release_year	int(4)							
9	rating	varchar(8)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
10	duration	varchar(10)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
11	listed_in	varchar(49)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
12	description	varchar(102)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Below the table structure, there is a section for adding columns and creating indexes.

Description: The disney\_plus\_titles table. While importing, no key was specified, but all the attributes were created

The screenshot shows the phpMyAdmin interface for the MySQL database 'assignment3'. The current table is 'basic\_info'. The structure view displays 3 columns with the following details:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	show_id	varchar(6)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	type	varchar(18)	latin1_swedish_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	title	varchar(500)	latin1_swedish_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Below the table structure, there is a section for adding columns and creating indexes. An index for the 'show\_id' column is listed:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	show_id	1450	A	No	

Create an index on 1 columns [Go](#)

Description: The basic\_info table which holds the type and title of the content, with the show\_id as primary key

The screenshot shows the phpMyAdmin interface for the MySQL database 'assignment3'. The current table is 'crew'. The structure view displays 3 columns with the following details:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	show_id	varchar(6)	utf8_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	director	varchar(100)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	cast	varchar(500)	utf8_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Below the table structure, there is a section for adding columns and creating indexes. An index for the 'show\_id' column is listed:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	show_id	1450	A	No	

Create an index on 1 columns [Go](#)

Description: The crew table which holds the director and cast of the content, with the show\_id as primary key

**Table: dates**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	show_id	varchar(6)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	date_added	varchar(18)	latin1_swedish_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	release_year	int(5)			Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

**Indexes**

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	show_id	1450	A	No	

Create an index on  columns [Go](#)

Description: The dates table which holds the date\_added and release\_year of the content, with the show\_id as primary key

**Table: further\_info**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	show_id	varchar(6)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	country	varchar(150)	latin1_swedish_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	duration	varchar(20)	latin1_swedish_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	listed_in	varchar(100)	latin1_swedish_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
5	description	varchar(1000)	latin1_swedish_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
6	rating	varchar(30)	latin1_swedish_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

**Indexes**

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	show_id	1450	A	No	

Create an index on  columns [Go](#)

Description: The further\_info table which holds the country, duration, listed\_in, description and rating of the content, with the show\_id as primary key

### 3) SQL queries to create tables and importing CSV file:

#### Importing CSV Data:

```
CREATE TABLE IF NOT EXISTS `assignment-3`.`disney_plus_titles` (`show_id` varchar(7), `type` varchar(7), `title` varchar(79), `director` varchar(51), `cast` varchar(112), `country` varchar(137), `date_added` varchar(18), `release_year` varchar(12), `rating` varchar(8), `duration` varchar(10), `listed_in` varchar(49), `description` varchar(102)) DEFAULT CHARACTER SET utf8 COLLATE utf8_general_ci;;
```

#### **Creating 4 Tables:**

```
CREATE TABLE basic_info (
show_id VARCHAR(6) NOT NULL,
type VARCHAR(18),
title VARCHAR(500),
CONSTRAINT bi_si_pk PRIMARY KEY(show_id));
```

```
CREATE TABLE dates(
show_id VARCHAR(6) NOT NULL,
date_added VARCHAR(18),
release_year INTEGER(5),
CONSTRAINT dates_si_pk PRIMARY KEY(show_id));
```

```
CREATE TABLE crew(
show_id VARCHAR(6) NOT NULL,
director VARCHAR(100),
cast VARCHAR(500),
CONSTRAINT crew_si_pk PRIMARY KEY(show_id))
CHARACTER SET = utf8;
```

```
CREATE TABLE further_info(
show_id VARCHAR(6) NOT NULL,
country VARCHAR(150),
duration VARCHAR(20),
listed_in VARCHAR(100),
description VARCHAR(1000),
rating VARCHAR(30),
CONSTRAINT fi_si_pk PRIMARY KEY(show_id));
```

#### **22 SQL Queries:**

1)

```
SELECT COUNT(*) AS 'Total Count Of Rows of All Columns Of basic_info Table'
FROM basic_info;
```

The screenshot shows the phpMyAdmin interface for MySQL. The left sidebar lists databases: MySQL, assignment3, New, bbb, hr, information\_schema, lab4, lab7, mvp-test1, mysql, performance\_schema, sys. The main area shows the basic\_info table from the assignment3 database. A message box says: "Your SQL query has been executed successfully." Below it is the query: "SELECT COUNT(\*) AS 'Total Count Of Rows of All Columns Of basic\_info Table' FROM basic\_info". The result is: "Total Count Of Rows of All Columns Of basic\_info Table" 1450. Below the result are options: Print, Copy to clipboard, Export, Display chart, Create view. At the bottom, there's a search bar and a taskbar.

Description: Total Rows in table basic\_info

2)

```
SELECT MAX(type) AS 'Most Watched Type'  
FROM basic_info;
```

The screenshot shows the phpMyAdmin interface for MySQL. The left sidebar lists databases: MySQL, assignment3, New, basic\_info, crew, dates, disney\_plus\_titles, further\_info, bbb, hr, information\_schema, lab4, lab7, mvp-test1, mysql, performance\_schema, and sys. The 'assignment3' database is selected. In the main area, the 'basic\_info' table is selected. A query has been run: `SELECT MAX(type) AS 'Most Watched Type' FROM basic_info`. The results show one row: 'Most Watched Type' (TV Show). Below the results, there are 'Query results operations' buttons for Print, Copy to clipboard, Export, Display chart, and Create view.

### Description: Most Watched Type

3)

`SELECT MIN(release_year) AS 'Least Movies or TV Series Released in the Year'  
FROM dates;`

The screenshot shows the phpMyAdmin interface for MySQL. The left sidebar lists databases and tables, with 'assignment3' selected. The main area displays the results of a query on the 'dates' table. The query is:

```
SELECT MIN(release_year) AS 'Least Movies or TV Series Released in the Year' FROM dates
```

The results show a single row with the value 1928. Below the results, there are options for 'Query results operations' including Print, Copy to clipboard, Export, Display chart, and Create view.

Description: Movie with the least release year

4)

```
SELECT MAX(listed_in)
FROM further_info further
JOIN dates dat
ON(further.show_id = dat.show_id)
JOIN basic_info basic
ON(further.show_id = basic.show_id)
WHERE dat.release_year = '2012' AND basic.type = 'Movie';
```

The screenshot shows the phpMyAdmin interface for a MySQL database named 'assignment3'. The left sidebar lists tables: 'New', 'assignment3', 'New', 'basic\_info', 'crew', 'dates', 'disney\_plus\_titles', and 'further\_info'. The 'further\_info' table is selected. The main area displays a query result for movies released in 2012:

```
SELECT MAX(listed_in) FROM further JOIN dates dat ON(further.show_id = dat.show_id) JOIN basic_info basic ON(further.show_id = basic.show_id) WHERE dat.release_year = '2012' AND basic.type = 'Movie'
```

The result shows one row: MAX(listed\_in) = Fantasy, Musical.

Description: Max movie genres in 2012

5)

SELECT MIN(type)

FROM basic\_info basic

JOIN crew c

ON(basic.show\_id = c.show\_id)

JOIN further\_info further

ON(basic.show\_id = further.show\_id)

WHERE c.director IS NOT NULL AND further.rating = 'TV-PG';

The screenshot shows the phpMyAdmin interface for MySQL. The left sidebar lists databases: assignment3, basic\_info, crew, dates, disney\_plus\_titles, further\_info, bbb, hr, information\_schema, lab4, lab7, mvp-test1, mysql, performance\_schema, and sys. The current database is assignment3, and the table selected is basic\_info. The main area displays a query result for the minimum type of TV-PG rating:

```
SELECT MIN(type) FROM basic_info basic JOIN crew c ON(basic.show_id = c.show_id) JOIN further_info further ON(basic.show_id = further.show_id) WHERE c.director IS NOT NULL AND further.rating = 'TV-PG'
```

The result shows one row with the value 'Movie' under the 'MIN(type)' column. Below the results, there are options to print, copy to clipboard, export, display chart, or create view.

Description: Minimum type of TV-PG rating

6)

```
SELECT COUNT(dat.release_year)
```

```
FROM dates dat
```

```
INNER JOIN basic_info basic
```

```
ON(dat.show_id = basic.show_id)
```

```
INNER JOIN further_info further
```

```
ON(dat.show_id = further.show_id)
```

```
WHERE basic.type = 'Movie' AND further.country LIKE '%United States%' AND dat.release_year = '2021';
```

The screenshot shows the phpMyAdmin interface for MySQL database 'assignment3'. The left sidebar lists databases like 'assignment3', 'basic\_info', 'crew', 'dates', 'disney\_plus\_titles', 'further\_info', 'bbb', 'hr', 'information\_schema', 'lab4', 'lab7', 'mvp-test1', 'mysql', 'performance\_schema', and 'sys'. The 'dates' table is selected in the central workspace. A message box indicates the query was executed successfully: 'Your SQL query has been executed successfully.' Below it is the raw SQL query: 'SELECT COUNT(dat.release\_year) FROM dates dat INNER JOIN basic\_info basic ON(dat.show\_id = basic.show\_id) INNER JOIN further\_info further ON(dat.show\_id = further.show\_id) WHERE basic.type = 'Movie' AND further.country LIKE '%United States%' AND dat.release\_year = '2021''. The result of the query is shown as a single row: 'COUNT(dat.release\_year)' with value '14'. At the bottom of the workspace, there are buttons for 'Query results operations' including Print, Copy to clipboard, Export, Display chart, and Create view.

Description: Movies released in the US in 2021

7)

SELECT \*

FROM basic\_info

WHERE type IN (

SELECT type

FROM basic\_info

WHERE type = 'Movie')

ORDER BY show\_id ASC;

The screenshot shows the phpMyAdmin interface for the MySQL database 'assignment3'. The left sidebar shows the database structure with tables like 'basic\_info', 'crew', 'dates', etc. The main area displays the 'basic\_info' table with the following data:

show_id	type	title
s1	Movie	Duck the Halls: A Mickey Mouse Christmas Special
s10	Movie	A Muppets Christmas: Letters To Santa
s100	Movie	Confessions of a Shopaholic
s1000	Movie	Lava
s1008	Movie	LEGO Star Wars: The New Yoda Chronicles - Clash of...
s1009	Movie	LEGO Star Wars: The New Yoda Chronicles - Raid on ...
s101	Movie	Descendants: Royal Wedding
s1010	Movie	LEGO Star Wars: The New Yoda Chronicles – Duel of ...
s1011	Movie	LEGO Star Wars: The New Yoda Chronicles – Escape f...
s1012	Movie	LEGO Star Wars: The New Yoda Chronicles – Race for...
s1013	Movie	Lemonade Mouth
s1014	Movie	Lend a Paw
s1015	Movie	Leroy & Stitch
s1016	Movie	Let it Shine

Description: Show basic info of movies in ascending order

8)

SELECT release\_year

FROM dates

WHERE date\_added IN (

SELECT date\_added

FROM dates

WHERE date\_added = 'November 12, 2021');

Showing rows 0 - 24 (28 total, Query took 0.0014 seconds.)

```
SELECT release_year FROM dates WHERE date_added IN ( SELECT date_added FROM dates WHERE date_added = 'November 12, 2021')
```

release_year
2021
2021
2018
2021
2007
2014
2015
2013
2021
2021
2021
2021
2021
2021
2021
2021
2021
2021
2021
2021
2021
2021
2021
2021

Description: Select release year of content added on 12 November 2021

9)

SELECT country, listed\_in, rating

FROM further\_info

WHERE listed\_in IN(

SELECT listed\_in

FROM further\_info

WHERE listed\_in LIKE '%Musical%');

The screenshot shows the phpMyAdmin interface for a MySQL database named 'assignment3'. The current table is 'further\_info'. A query has been run to select 'country', 'listed\_in', and 'rating' for entries where 'listed\_in' contains the word 'Musical'. The results show 24 rows of data.

country	listed_in	rating
	Musical	TV-PG
	Comedy, Family, Musical	G
	Comedy, Family, Musical	TV-PG
	Animation, Fantasy, Musical	TV-G
	Fantasy, Musical	TV-G
	Musical, Romance, Western	TV-PG
	Animation, Kids, Musical	TV-Y
	Family, Fantasy, Musical	PG
	Action-Adventure, Fantasy, Musical	PG
	Family, Fantasy, Musical	PG
	Coming of Age, Fantasy, Musical	TV-G
	Dance, Music, Musical	TV-14
	Historical, Musical	TV-PG
	Historical, Musical	TV-PG

Description: Country and rating of content listed in the genre of Muscials

10)

SELECT COUNT(basic.type)

FROM basic\_info basic LEFT OUTER JOIN dates dat

ON (basic.show\_id = dat.show\_id)

WHERE dat.release\_year BETWEEN 2010 AND 2019;

The screenshot shows the phpMyAdmin interface for MySQL database 'assignment3'. The left sidebar lists databases like 'assignment3', 'basic\_info', 'crew', 'dates', 'disney\_plus\_titles', 'further\_info', 'bbb', 'hr', 'information\_schema', 'lab4', 'lab7', 'mvp-test1', 'mysql', 'performance\_schema', and 'sys'. The main area displays a query result for the 'basic\_info' table. The query is:

```
SELECT COUNT(basic.type) FROM basic_info basic LEFT OUTER JOIN dates dat ON (basic.show_id = dat.show_id) WHERE dat.release_year BETWEEN 2010 AND 2019
```

The result shows a single row with COUNT(basic.type) = 554. Below the results, there are options to print, copy to clipboard, export, display chart, or create view.

Description: Content release between 2010 - 2019

11)

SELECT further.country AS 'Country', MAX(basic.type) AS 'Most Watched Type', MIN(basic.type) AS 'Least Watched Type'

FROM further\_info FURTHER LEFT OUTER JOIN basic\_info basic

ON (further.show\_id = basic.show\_id)

WHERE further.country LIKE '%Canada%';

Showing rows 0 - 0 (1 total, Query took 0.0018 seconds)

```
SELECT further.country AS 'Country', MAX(basic.type) AS 'Most Watched Type', MIN(basic.type) AS 'Least Watched Type' FROM further_info FURTHER LEFT OUTER JOIN basic_info basic ON (further.show_id = basic.show_id) WHERE further.country LIKE '%Canada%'
```

Country	Most Watched Type	Least Watched Type
United States, Canada	TV Show	Movie

Description: Most and least watched type in Canada

12)

SELECT further.country AS 'Country', COUNT(basic.type) AS 'Count', MAX(basic.type) AS 'Most Watched Type', MIN(basic.type) AS 'Least Watched Type'

FROM basic\_info basic

LEFT OUTER JOIN further\_info further

ON (basic.show\_id = further.show\_id)

LEFT OUTER JOIN dates dat

ON (basic.show\_id = dat.show\_id)

WHERE further.country LIKE '%United States%' AND dat.release\_year BETWEEN 2011 AND 2021 AND basic.type IS NOT NULL;

Your SQL query has been executed successfully.

```
SELECT further.country AS 'Country', COUNT(basic.type) AS 'Count', MAX(basic.type) AS 'Most Watched Type', MIN(basic.type) AS 'Least Watched Type' FROM basic_info basic
LEFT OUTER JOIN further_info further ON (basic.show_id = further.show_id)
LEFT OUTER JOIN dates dat ON (basic.show_id = dat.show_id)
WHERE further.country LIKE '%United States%'
AND dat.release_year BETWEEN 2011 AND 2021 AND basic.type IS NOT NULL
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Country	Count	Most Watched Type	Least Watched Type
United States	505	TV Show	Movie

Query results operations

Print  Copy to clipboard  Export  Display chart  Create view

Description: Most and least watched type in the US between 2011 - 2021

13) SELECT title

FROM basic\_info

JOIN crew c

USING (show\_id)

WHERE c.cast LIKE "%Johnny Depp%"

UNION

SELECT title

FROM basic\_info

JOIN further\_info

USING (show\_id)

WHERE listed\_in LIKE "%Comedy%"

The screenshot shows the phpMyAdmin interface connected to a MySQL database named 'assignment3'. The current table is 'basic\_info'. A warning message at the top states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' Below this, a green bar indicates 'Showing rows 0 - 24 (532 total). Query took 0.0227 seconds.' The SQL query executed is:

```
SELECT title FROM basic_info JOIN crew c USING (show_id) WHERE c.cast LIKE "%Johnny Depp%" UNION SELECT title FROM basic_info JOIN further_info USING (show_id) WHERE listed_in LIKE "%Comedy%"
```

The results list various movie titles, including:

- Pirates of the Caribbean: On Stranger Tides
- Alice Through the Looking Glass
- Pirates of the Caribbean: Dead Men Tell No Tales
- Pirates of the Caribbean: At World's End
- Pirates of the Caribbean: Dead Man's Chest
- Pirates of the Caribbean: The Curse of the Black P...
- Ernest Saves Christmas
- Ice Age: A Mammoth Christmas
- A Muppets Christmas: Letters To Santa
- Puppy for Hanukkah
- Ciao Alberto
- Disney Intertwined
- Enchanted

Description: Titles of all the movies in the comedy genre and those with Johnny Depp in the cast

14) SELECT \*

FROM basic\_info

JOIN crew c

USING (show\_id)

WHERE c.cast LIKE "%Amy Adams%"

AND show\_id

IN

(SELECT show\_id

FROM further\_info

WHERE listed\_in LIKE "%Comedy%")

The screenshot shows the phpMyAdmin interface for a MySQL database named 'assignment3'. The left sidebar lists various databases and tables, including 'basic\_info', 'crew', and 'further\_info'. The main area displays a query result for the 'basic\_info' table, which has columns: show\_id, type, title, director, and cast. The results show three movies: 'Enchanted' (Movie), 'The Muppets' (Movie), and 'Night at the Museum: Battle of the Smithsonian' (Movie). The 'cast' column lists the actors for each movie, including Amy Adams.

show_id	type	title	director	cast
s20	Movie	Enchanted	Kevin Lima	Amy Adams, Patrick Dempsey, James Marsden, Timothy...
s1311	Movie	The Muppets	James Bobin	Jason Segel, Amy Adams, Chris Cooper, Rashida Jones...
s1447	Movie	Night at the Museum: Battle of the Smithsonian	Shawn Levy	Ben Stiller, Amy Adams, Owen Wilson, Hank Azaria, ...

Description: Movies of Amy Adams in the Comedy genre

15) SELECT \*

FROM basic\_info

JOIN crew c

USING (show\_id)

WHERE c.cast LIKE "%Amy Adams%"

AND show\_id

NOT IN

(SELECT show\_id

FROM further\_info

WHERE listed\_in LIKE "%Comedy%")

The screenshot shows the phpMyAdmin interface connected to a MySQL server (localhost:3306). The database selected is 'assignment3' and the table is 'basic\_info'. A warning message states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' Below this, a green success message says: 'Showing rows 0 - 0 (1 total, Query took 0.0127 seconds)'.

The SQL query executed is:

```
SELECT * FROM basic_info JOIN crew c USING (show_id) WHERE c.cast LIKE "%Amy Adams%" AND show_id NOT IN (SELECT show_id FROM further_info WHERE listed_in LIKE "%Comedy%")
```

The results table shows one row:

show_id	type	title	director	cast
s125	Movie	Underdog	Frederik Du Chau	Jason Lee, Amy Adams, Jim Belushi, Peter Dinklage,...

Below the table are 'Query results operations' buttons: Print, Copy to clipboard, Export, Display chart, Create view.

The taskbar at the bottom shows various pinned applications like Flex Student, MVP | Trello, Web Development..., CodePen, Classes, Ten Sports Live - Te..., Probability and Stat..., Links of Online Clas..., Comedy for a Caus..., and Reading list.

Description: Movies of Amy Adams not in the comedy genre

16) SELECT \*

FROM basic\_info

INNER JOIN further\_info

ON basic\_info.show\_id = further\_info.show\_id

localhost / MySQL / assignment3

localhost/phpmyadmin/tbl\_sql.php?db=assignment3&table=basic\_info

phpMyAdmin

Current server: MySQL 3.3006

Database: assignment3 Table: basic\_info

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 24 (1450 total, Query took 0.0018 seconds.)

`SELECT * FROM basic_info INNER JOIN further_info ON basic_info.show_id = further_info.show_id`

Number of rows: 25 Filter rows: Search this table Sort by key: None

show_id	type	title	show_id	country	duration	listed_in	description	rating
s1	Movie	Duck the Halls: A Mickey Mouse Christmas Special	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s2	Movie	Ernest Saves Christmas	s2		91 min	Comedy	Santa Claus passes his magic bag to a new St. Nic.	PG
s3	Movie	Ice Age: A Mammoth Christmas	s3	United States	23 min	Animation, Comedy, Family	Sid the Sloth is on Santa's naughty list.	TV-G
s4	Movie	The Queen Family Singalong	s4		41 min	Musical	This is real life, not just fantasy!	TV-PG
s5	TV Show	The Beatles: Get Back	s5		1 Season	Docuseries, Historical, Music	A three-part documentary from Peter Jackson captur...	
s6	Movie	Becoming Cousteau	s6	United States	94 min	Biographical, Documentary	An inside look at the legendary life of adventurer...	PG-13
s7	TV Show	Hawkeye	s7		1 Season	Action-Adventure, Superhero	Clint Barton/Hawkeye must team up with skilled arc...	TV-14
s8	TV Show	Port Protection Alaska	s8	United States	2 Seasons	Docuseries, Reality, Survival	Residents of Port Protection must combat volatile ...	TV-14
s9	TV Show	Secrets of the Zoo: Tampa	s9	United States	2 Seasons	Animals & Nature, Docuseries, Family	A day in the life at ZooTampa is anything but ordi...	TV-PG

Description: 0.0018 seconds to run an INNER JOIN command

17) `SELECT *`

`FROM basic_info`

`LEFT JOIN further_info`

`ON basic_info.show_id = further_info.show_id`

localhost / MySQL / assignment3

localhost/phpmyadmin/tbl\_sql.php?db=assignment3&table=basic\_info

phpMyAdmin

Current server: MySQL

Recent Favorites

New

assignment3

New

+ basic\_info

crew

dates

disney\_plus\_titles

further\_info

bbb

hr

information\_schema

lab4

lab7

mvp-test1

mysql

performance\_schema

sys

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 24 (1450 total, Query took 0.0011 seconds.)

SELECT \* FROM basic\_info LEFT JOIN further\_info ON basic\_info.show\_id = further\_info.show\_id

Number of rows: 25 Filter rows: Search this table Sort by key: None

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

show_id	type	title	show_id	country	duration	listed_in	description	rating
s1	Movie	Duck the Halls: A Mickey Mouse Christmas Special	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s2	Movie	Ernest Saves Christmas	s2		91 min	Comedy	Santa Claus passes his magic bag to a new St. Nic.	PG
s3	Movie	Ice Age: A Mammoth Christmas	s3	United States	23 min	Animation, Comedy, Family	Sid the Sloth is on Santa's naughty list.	TV-G
s4	Movie	The Queen Family Singalong	s4		41 min	Musical	This is real life, not just fantasy!	TV-PG
s5	TV Show	The Beatles: Get Back	s5		1 Season	Docuseries, Historical, Music	A three-part documentary from Peter Jackson captur...	
s6	Movie	Becoming Cousteau	s6	United States	94 min	Biographical, Documentary	An inside look at the legendary life of adventurer...	PG-13
s7	TV Show	Hawkeye	s7		1 Season	Action-Adventure, Superhero	Clint Barton/Hawkeye must team up with skilled arc...	TV-14
s8	TV Show	Port Protection Alaska	s8	United States	2 Seasons	Docuseries, Reality, Survival	Residents of Port Protection must combat volatile ...	TV-14
s9	TV Show	Secrets of the Zoo: Tampa	s9	United States	2 Seasons	Animals & Nature, Docuseries, Family	A day in the life at ZooTampa is anything but ordi...	TV-PG

Console

Type here to search

17°C Smoke 8:31 pm 12/12/2021

Description: 0.0011 seconds to execute a LEFT JOIN command

18) SELECT \*

FROM basic\_info

CROSS JOIN further\_info

The screenshot shows the phpMyAdmin interface for a MySQL database named 'assignment3'. The current table is 'basic\_info'. The query executed was:

```
SELECT * FROM basic_info CROSS JOIN further_info
```

The results show 24 rows of data, each containing fields from both tables. The columns are: show\_id, type, title, show\_id, country, duration, listed\_in, description, rating. The data includes various movies and TV shows like 'Duck the Halls', 'Ernest Saves Christmas', 'Ice Age: A Mammoth Christmas', etc.

show_id	type	title	show_id	country	duration	listed_in	description	rating
s1	Movie	Duck the Halls: A Mickey Mouse Christmas Special	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s2	Movie	Ernest Saves Christmas	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s3	Movie	Ice Age: A Mammoth Christmas	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s4	Movie	The Queen Family Singalong	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s5	TV Show	The Beatles: Get Back	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s6	Movie	Becoming Cousteau	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s7	TV Show	Hawkeye	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s8	TV Show	Port Protection Alaska	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s9	TV Show	Secrets of the Zoo: Tampa	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s10	Movie	A Muppets Christmas: Letters To Santa	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s11	Movie	Adventure Thru the Walt Disney Archives	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s12	Movie	Puppy for Hanukkah	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s13	Movie	The Pixar Story	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
s14	TV Show	Dr. Oakley, Yukon Vet	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G
Console	Movie	America the Beautiful	s1		23 min	Animation, Family	Join Mickey and the gang as they duck the halls!	TV-G

Description: 0.0033 seconds for CROSS JOIN command

19) SELECT \*

FROM further\_info fi

JOIN crew c

USING (show\_id)

JOIN basic\_info bi

USING (show\_id)

WHERE c.director LIKE "%Jason Sterman%";

The screenshot shows the phpMyAdmin interface for MySQL database 'assignment3'. The left sidebar lists databases and tables, including 'assignment3' which contains 'basic\_info', 'crew', 'dates', 'disney\_plus\_titles', and 'further\_info'. The 'further\_info' table is selected, showing its structure with columns: show\_id, country, duration, listed\_in, description, rating, director, cast, type, and title. A single row is displayed: s94, 88 min, Documentary, Two Pixar filmmakers strive to bring their uniquel..., TV-PG, Jason Sterman, Leanne Dare, Aphthon Corbin, Louis Gonzales, Movie, A Spark Story. Below the table, there are options to print, copy to clipboard, export, display chart, or create view. The status bar at the bottom shows system information: 17°C, Smoke, 8:33 pm, 12/12/2021.

Description: All content of Jason Sterman

20) SELECT \*

FROM further\_info fi

JOIN basic\_info bi

USING (show\_id)

WHERE fi.listed\_in = "Comedy";

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** MySQL 3.3306
- Database:** assignment3
- Table:** further\_info
- Rows:** 8 total (rows 0 - 7)
- Query took:** 0.0012 seconds
- SQL Query:**

```
SELECT * FROM further_info fi JOIN basic_info bi USING (show_id) WHERE fi.listed_in = "Comedy"
```
- Table Headers:** show\_id, country, duration, listed\_in, description, rating, type, title
- Table Data:** (8 rows of data, all under Comedy genre)

All content listed solely under Comedy

21) SELECT \*

FROM further\_info fi

JOIN basic\_info bi

USING (show\_id)

WHERE fi.rating = "PG-13";

The screenshot shows the phpMyAdmin interface connected to a MySQL server (localhost:3306). The current database is assignment3, and the table selected is further\_info. A warning message at the top states: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." Below this, a green bar indicates "Showing rows 0 - 24 (66 total, Query took 0.0011 seconds.)". The SQL query executed is: "SELECT \* FROM further\_info fi JOIN basic\_info bi USING (show\_id) WHERE fi.rating = 'PG-13'". The results table displays 24 rows of movie information, including show\_id, country, duration, listed\_in, description, rating, type, and title. The table has columns: show\_id, country, duration, listed\_in, description, rating, type, and title.

show_id	country	duration	listed_in	description	rating	type	title
s6	United States	94 min	Biographical, Documentary	An inside look at the legendary life of adventurer...	PG-13	Movie	Becoming Cousteau
s25	United States	129 min	Action-Adventure, Comedy, Family	Dr. Lily Houghton & skipper Frank Wolff team up fo...	PG-13	Movie	Jungle Cruise
s32	United States, Australia	134 min	Action-Adventure, Fantasy, Superhero	Shang-Chi must confront his father, leader of the ...	PG-13	Movie	Shang-Chi and The Legend of The Ten Rings
s51	United States, United Kingdom	132 min	Action-Adventure, Science Fiction, Superhero	Following the classic mythology, X-Men: First Clas...	PG-13	Movie	X-Men: First Class
s75	United States	135 min	Action-Adventure, Science Fiction, Spy/Espionage	Natasha confronts her history as a spy and the bro...	PG-13	Movie	Black Widow
s78	United States	105 min	Biographical, Documentary	"Fauci" reveals the extraordinary life and career ...	PG-13	Movie	Fauci
s96	United States	127 min	Coming of Age, Drama, Romance	Hazel and Gus share a love that sweeps them on an ...	PG-13	Movie	The Fault in Our Stars
...	United States, United Kingdom	140 min	Action-Adventure, Fantasy	A woman from his past uses Jack to help find the f...	PG-13	Movie	Pirates of the Caribbean: On Stranger Tides

Description: All content with PG-13 rating

22) SELECT \*

FROM further\_info fi

JOIN crew c

USING (show\_id)

JOIN basic\_info bi

USING (show\_id)

WHERE c.cast LIKE "%Johnny Depp%";

localhost / MySQL / assignment3

localhost/phpmyadmin/tbl\_sql.php?db=assignment3&table=further\_info

phpMyAdmin

Current server: MySQL 3.3306 » Database: assignment3 » Table: further\_info

Show query box

Showing rows 0 - 5 (6 total, Query took 0.0302 seconds)

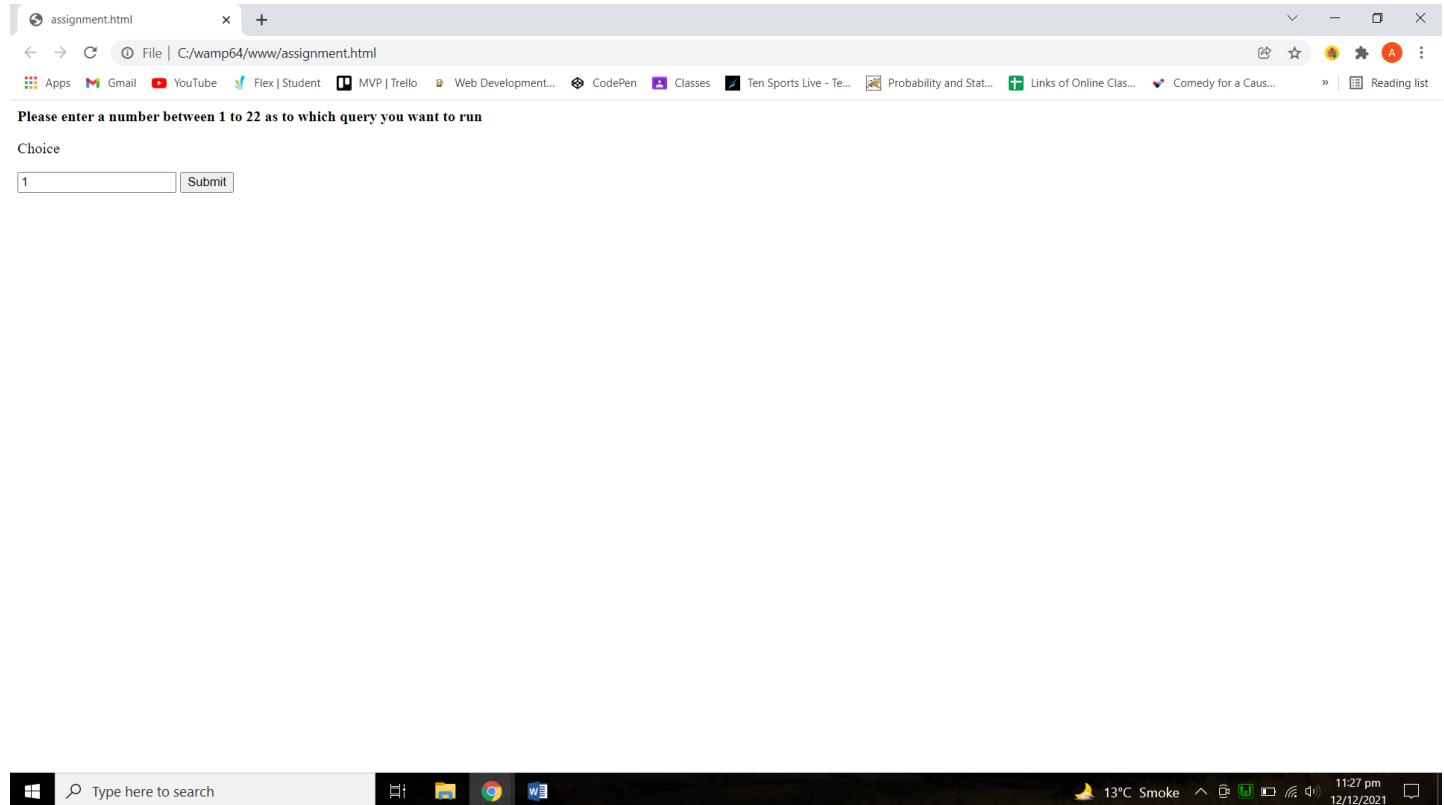
```
SELECT * FROM further_info fi JOIN crew c USING (show_id) JOIN basic_info bi USING (show_id) WHERE c.cast LIKE "%Johnny Depp%"
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

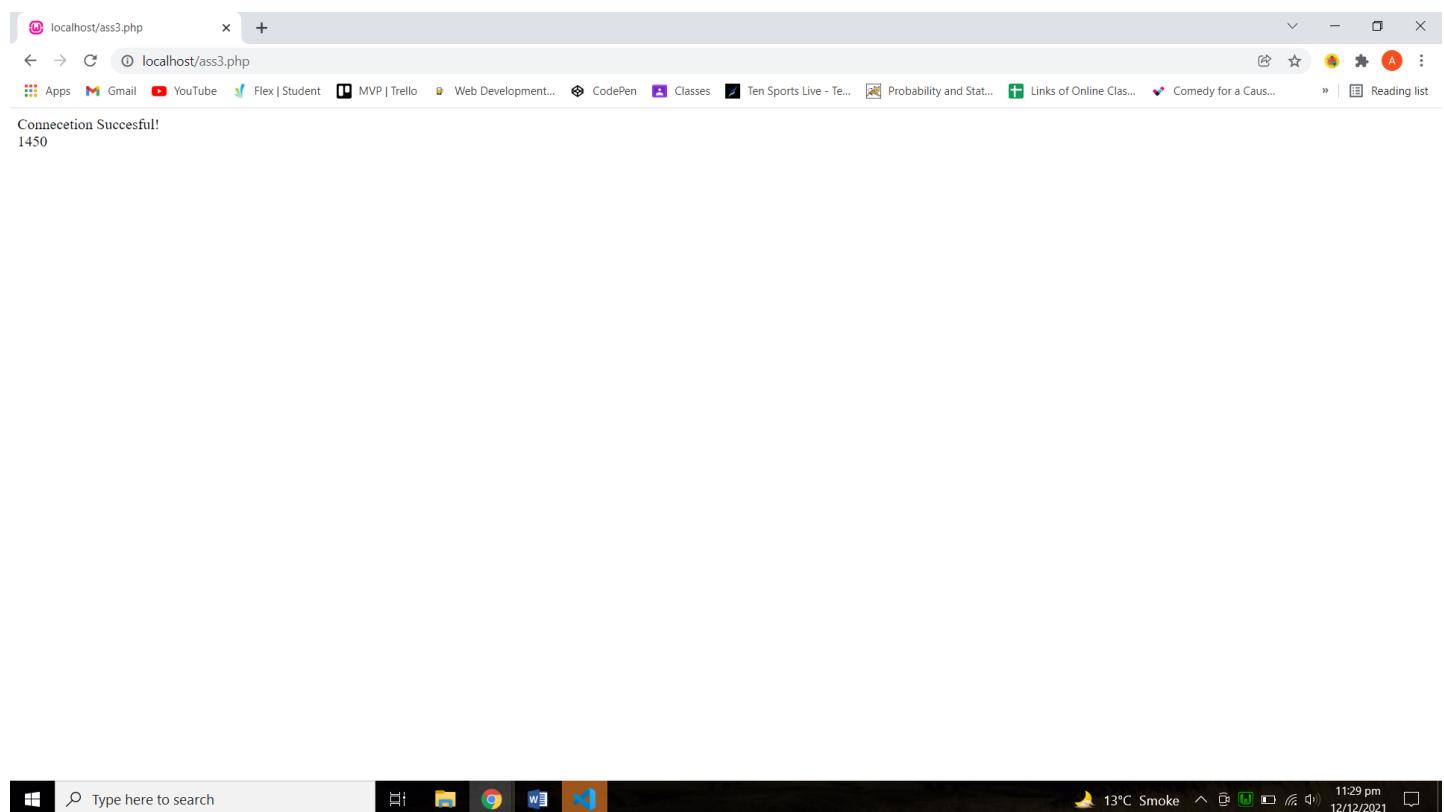
show_id	country	duration	listed_in	description	rating	director	cast	type	title
s111	United States, United Kingdom	140 min	Action-Adventure, Fantasy	A woman from his past uses Jack to help find the f...	PG-13	Rob Marshall	Johnny Depp, Penélope Cruz, Ian McShane, Geoffrey ...	Movie	Pirates of the Caribbean: On Stranger Tides
s421	United States, United Kingdom	115 min	Action-Adventure, Fantasy	Alice returns to Underland to save the Mad Hatter ...	PG	James Bobin	Johnny Depp, Anne Hathaway, Mia Wasikowska, Matt L...	Movie	Alice Through the Looking Glass
s462	United States	129 min	Action-Adventure, Fantasy	Captain Jack Sparrow searches for the Trident of P...	PG-13	Joachim Ronning, Espen Sandberg	Johnny Depp, Javier Bardem, Brenton Thwaites, Kaya...	Movie	Pirates of the Caribbean: Dead Men Tell No Tales
s1132	United States	169 min	Action-Adventure, Fantasy	An alliance forms to rescue Captain Jack Sparrow f...	PG-13	Gore Verbinski	Johnny Depp, Orlando Bloom, Keira Knightley, Stell...	Movie	Pirates of the Caribbean: At World's End
s1133	United States	152 min	Action-Adventure, Fantasy	Captain Jack Sparrow must seize the "Dead Man's Ch...	PG-13	Gore Verbinski	Johnny Depp, Orlando Bloom, Keira Knightley, Stell...	Movie	Pirates of the Caribbean: Dead Man's Chest
s1134	United States	144 min	Action-Adventure, Fantasy	Jack Sparrow and Will Turner partner to save the g...	PG-13	Gore Verbinski	Johnny Depp, Geoffrey Rush, Orlando Bloom, Keira K...	Movie	Pirates of the Caribbean: The Curse of the Black P...

Description: All the work of Johnny Depp

## 7) Webpage sample and Results



Description: Basic front-end to enter query number.



Description: Result for first query

Please enter a number between 1 to 22 as to which query you want to run

Choice


## Description: Looking for response for query 21

Connection Successful!

s6United States94 minBiographical, DocumentaryAn inside look at the legendary life of adventurer Jacques-Yves Cousteau.PG-13MovieBecoming Cousteau  
 s25United States129 minAction-Adventure, Comedy, FamilyDr. Lily Houghton & skipper Frank Wolff team up for a wild ride on the Amazon.PG-13MovieJungle Cruise  
 s32United States, Australia134 minAction-Adventure, Fantasy, SuperheroShang-Chi must confront his father, leader of the Ten Rings organization.PG-13MovieShang-Chi and The Legend of The Ten Rings  
 s51United States, United Kingdom132 minAction-Adventure, Science Fiction, SuperheroFollowing the classic mythology, X-Men: First Class charts the epic beginning of the X-Men saga.PG-13MovieX-Men: First Class  
 s75United States135 minAction-Adventure, Science Fiction, Spy/EspionageNatasha confronts her history as a spy and the broken relationships left in her wake.PG-13MovieBlack Widow  
 s78United States105 minBiographical, Documentary"Fauci" reveals the extraordinary life and career of Dr. Anthony Fauci.PG-13MovieFauci  
 s96United States127 minComing of Age, Drama, RomanceHazel and Gus share a love that sweeps them on an unforgettable journey.PG-13MovieThe Fault in Our Stars  
 s111United States, United Kingdom140 minAction-Adventure, FantasyA woman from his past uses Jack to help find the fabled Fountain of Youth.PG-13MoviePirates of the Caribbean: On Stranger Tides  
 s118United States, Canada115 minAction-Adventure, Family, Science FictionWhen Jean Grey transforms into the Dark Phoenix, the X-Men unite to face their greatest enemy yet.PG-13MovieX-Men: Dark Phoenix  
 s121United States, United Kingdom137 minCrime, DramaWitness the origin of Disney's most notorious and notoriously fashionable villain, Cruella de Vil.PG-13MovieCruella  
 s122United States99 minComedy, Drama, RomanceA relationship expert falls in love with his brother's new girlfriend.PG-13MovieDan in Real Life  
 s131United States, Germany106 minAction-Adventure, Family, Science FictionFour astronauts develop superpowers and must join forces to protect mankind from doom.PG-13MovieFantastic Four  
 s132United States105 minAction-Adventure, Family, Science FictionThe X-Men, a small band of outcast mutants, fight to save a world that hates and fears them.PG-13MovieX-Men  
 s141United States126 minComedy, DramaAn eccentric dad dresses as a British nanny so he can care for his kids at the home of their mother.PG-13MovieMrs. Doubtfire  
 s206United States126 minAction-Adventure, Drama, HistoricalBlack fighter pilots get the chance to prove themselves during WWI.PG-13MovieRed Tails  
 s226United States, United Kingdom, Canada105 minAction-Adventure, Family, Science FictionWhen Professor X clashes with Magneto, the battle lines are drawn for the war to end all wars.PG-13MovieX-Men: The Last Stand  
 s282United States, United Kingdom, Belgium, Canada127 minComing of Age, FantasyA wildly imaginative fantasy-adventure about a secret world for children with unusual powers.PG-13MovieMiss Peregrine's Home for Peculiar Children  
 s314United States, Germany, United Kingdom102 minAction-Adventure, Animation, ComedySet in Japan, ISLE OF DOGS follows a boy's odyssey in search of his dog.PG-13MovieIsle of Dogs  
 s348United States, Canada, Hong Kong117 minAction-Adventure, Coming of Age, DramaA young woman risks it all to be a great Chinese warrior in Disney's MULAN.PG-13MovieMulan  
 s388United States122 minBiographical, Drama, MusicA young musician with months to live turns to music to make the most of the time he has left.PG-13MovieClouds  
 s397Canada, United States134 minAction-Adventure, Family, Science FictionX-Men newcomer, Night Crawler, joins Magneto to rescue their brethren and forestall a holocaust.PG-13MovieX2  
 s409United States122 minDrama, RomanceA young woman falls in love with a prince while pretending to be a princess.PG-13MovieEver After: A Cinderella Story  
 s433United States120 minAction-Adventure, Comedy, Science FictionAnt-Man and the Wasp must join forces to uncover secrets from the past.PG-13MovieMarvel Studios' Ant-Man and the Wasp  
 s442United States117 minAction-Adventure, FantasyA rogue prince and rival princess safeguard a magical dagger with the power to reverse time.PG-13MoviePrince of Persia: The Sands of Time  
 s462United States129 minAction-Adventure, FantasyCaptain Jack Sparrow searches for the Trident of Poseidon.PG-13MoviePirates of the Caribbean: Dead Men Tell No Tales  
 s474United States144 minAction-Adventure, Family, Science FictionApocalypse, the most powerful mutant in the universe, tries to destroy all of mankind.PG-13MovieX-Men: Apocalypse  
 s477United States135 minAction-Adventure, Crime, Science FictionWitness the beginning of the Star Wars saga's most unlikely hero.PG-13MovieSolo: A Star Wars Story  
 s478United States, United Kingdom, Canada132 minAction-Adventure, Family, Science FictionCharacters from the X-Men trilogy join their younger selves to change the past and save our future.PG-13MovieX-Men: Days of Future Past  
 s482United States160 minBiographical, Historical, MusicalThe filmed version of Broadway original *Hamilton* that soars in music and tale.PG-13MovieHamilton  
 s492United States152 minAction-Adventure, Fantasy, Science FictionThe Avengers must be willing to sacrifice all to defeat Thanos.PG-13MovieMarvel Studios' Avengers: Infinity War  
 s531United States142 minAction-Adventure, Family, Science FictionThe landmark Skywalker saga comes to a conclusion.PG-13MovieStar Wars: The Rise of Skywalker (Episode IX)  
 s532United States134 minAction-Adventure, Family, FantasyA former military captain is inexplicably transported to Barsoom (Mars).PG-13MovieJohn Carter  
 s607United States119 minAction-Adventure, Disaster, DramaBased on a true story of the Coast Guard's most daring rescue.PG-13MovieThe Finest Hours  
 s610United States137 minAction-Adventure, Science Fiction, SuperheroT'Challa battles a powerful foe when his homeland of Wakanda is threatened.PG-13MovieMarvel Studios' Black Panther  
 s676United States152 minAction-Adventure, Science FictionNew heroes and galactic legends join to unlock mysteries of the Force.PG-13MovieStar Wars: The Last Jedi (Episode VIII)



## Description: Result for 21<sup>st</sup> query

Both HTML and PHP files sent in submission files.