

SQL

Structured Query Language

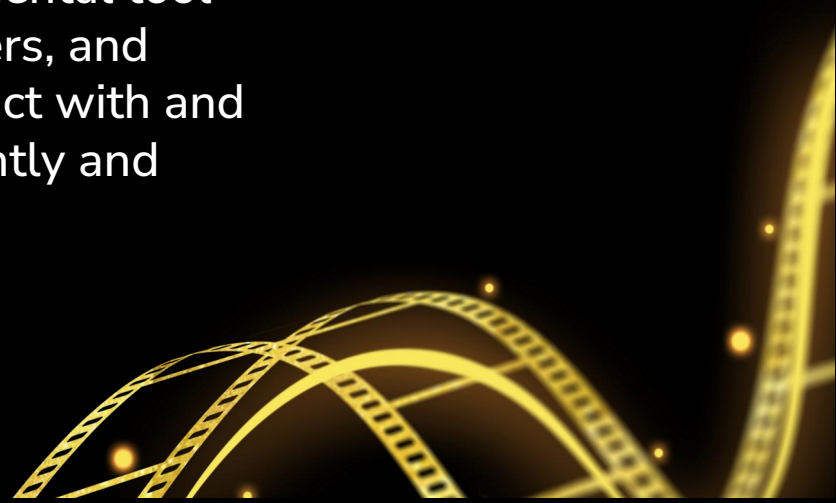
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Guidance : [BESANT TECHNOLOGY]

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About Sql

1. SQL, or Structured Query Language, is a standard programming language specifically designed for managing and manipulating relational databases. SQL is a fundamental tool for database administrators, developers, and data analysts, enabling them to interact with and manage large volumes of data efficiently and securely within a relational database environment.



What is Query?

- A query in the context of databases and SQL (Structured Query Language) refers to a request for information from a database. It is a command or a set of commands used to interact with a database management system (DBMS) to perform operations such as retrieving data, updating records, inserting new data, or deleting data. Queries are used to communicate with and manipulate the data stored in a database.

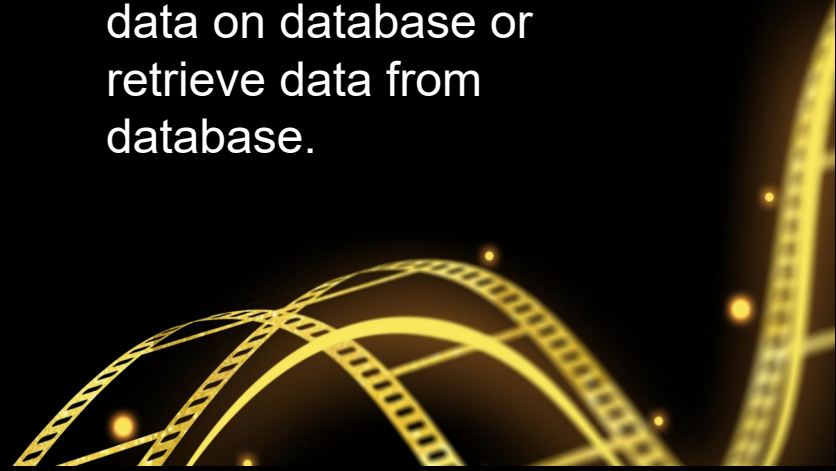


Uses of Sql

- 1 Data Querying
- 2 Data Modification
- 3 Database Definition
- 4 Data Control and Security
- 5 Data Analysis and Reporting

Why Sql is used ?

SQL is used to communicate with database like update data on database or retrieve data from database.



Why Sql is important for any website ?

- SQL is important for websites for several reasons, especially when the website involves data storage, retrieval, and management.
- key reasons
 - 1 Data Storage and Retrieval
 - 2 Database Design and Schema
 - 3 User Authentication and Authorization
 - 4 Content Management
 - 5 Data Analysis and Reporting





Project Title:

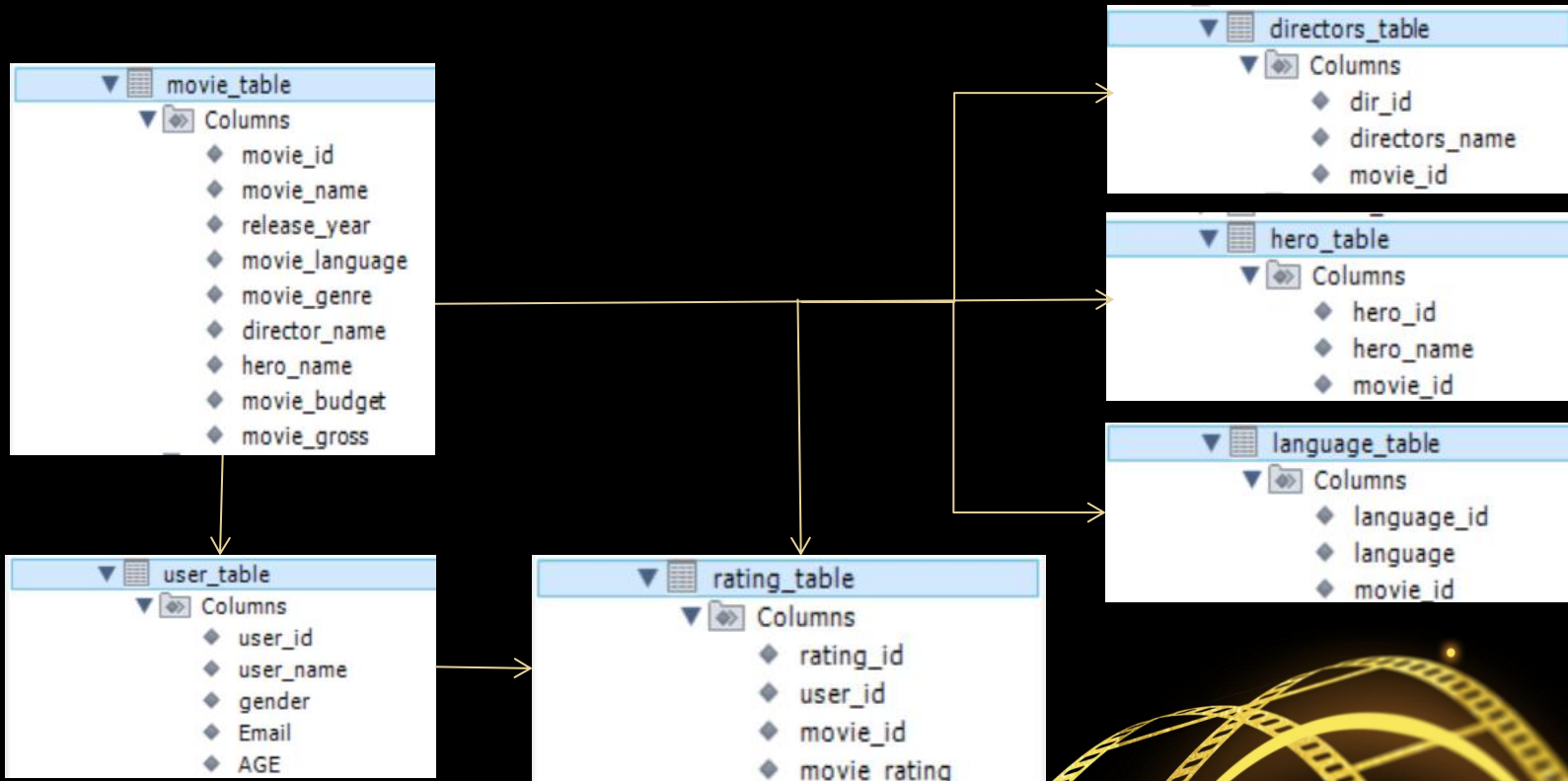
Movie Review System



About Movie Review System

- A movie review system, SQL project involves designing and implementing a database system to store and manage movie-related data.
- well-structured database schema to store essential information about movies, users, ratings, directors, actors and any other relevant data
- A person can log in to this website by filling in their details as shown in the database and users can give ratings to the movie using movie id, and also it shows which movie grossed a higher collection and which movies are considered blockbuster, average, or flop.
- We can search for particular language, director and here movie

Entity Relationship Model



movie_table

	movie_id	movie_name	release_year	movie_language	movie_genre	director_name	hero_name	movie_budget	movie_gross
	1001	Baahubali 1	2015	Telugu	Action/Fantasy	S S Rajamouli	Prabhas	10000000	50000000
	1002	Baahubali 2	2017	Telugu	Action/Fantasy	S S Rajamouli	Prabhas	50000000	150000000
	1003	KGF 1	2018	Kannada	Action/Thriller	Prashanth Neel	Yash	3000000	10000000
	1004	KGF 2	2022	Kannada	Action/Thriller	Prashanth Neel	Yash	10000000	100000000
	1005	Acharya	2022	Telugu	Action Drama	Koratala Siva	Chiranjeevi,Ram Charan	10000000	7000000
	1006	Vikranth rona	2022	Kannada	Action Crime	Anup Bhandari	Sudeep	10000000	10000000
	1007	Kantara	2022	Kannada	Action/Thriller	Rishab Shetty	Rishab Shetty	100000000	250000000
	1008	Hanu Man	2024	Telugu	Action/Adventure	Prashanth Varma	Teja Sajja	50000000	250000000
	1009	Kaatera	2023	Kannada	Action/Drama	Tharun Sudhir	Darshan	150000000	450000000
	1010	RRR	2022	Telugu	Action/Drama	S S Rajamouli	NTR,Ram Charan	350000000	850000000

movie_table

	movie_id	movie_name	release_year	movie_language	movie_genre	director_name	hero_name	movie_budget	movie_gross
	1011	777 Charlie	2022	Kannada	Adventure/Come...	Kiran Raj K	Rakshith Shetty	10000000	30000000
	1012	Beast	2022	Tamil	Comedy/Thriller	Nelson	Vijay	5000000	5000000
	1013	Radhe Shyam	2022	Telugu	Drama/Romance	K.K. Radhakrish...	Prabhas	10000000	6000000
	1014	Bachelor Party	2024	Kannada	Comedy	Abhijith Mahesh	Diganth,Yogi	5500000	55000000
	1015	Adipurush	2023	Telugu	Action/Fantasy	Om Raut	Prabhas	110000000	60000000
	1016	kabza	2023	Kannada	Action/crime	R Chandru	Upendra,Sudeep,Shiva...	15000000	15000000
	1017	Gunturu Karam	2024	Telugu	Drama/Family	Trivikram	Mahesh babu	5000000	5000000
	1018	Zero	2018	Hindi	Romance/Comedy	Anand L Rai	Sha Rukh Khan	5500000	3500000
	1019	Bhola	2023	Hindi	Action/Drama/Cri...	Ajay Devgn	Ajay Devgn	6500000	4500000
	1020	Varisu	2023	Tamil	Action/Drama	Vamshi Paidipally	Vijay	4500000	2500000

directors_table

	dir_id	directors_name	movie_id
	111	Kiran Raj K	1011
	112	Nelson	1012
	113	K.K. Radhakrish...	1013
	114	Abhijith Mahesh	1014
	115	Om Raut	1015
	116	R Chandru	1016
	117	Trivikram	1017
	121	S S Rajamouli	1002
	122	S S Rajamouli	1010
	123	Prashanth Neel	1004
•	NULL	NULL	NULL

	dir_id	directors_name	movie_id
▶	101	S S Rajamouli	1001
	102	Ajay Devagn	1019
	103	Prashanth Neel	1003
	104	Vamsi Paidipally	1020
	105	Koratala Siva	1005
	106	Anup Bhandari	1006
	107	Rishab Shetty	1007
	108	Prashanth Varma	1008
	109	Tharun Sudhir	1009
	110	Anand L Rai	1018
	111	Kiran Raj K	1011

hero_table

	hero_id	hero_name	movie_id
►	202	Prabhas	1001
	203	Yash	1003
	204	Chiranjeevi,Ram Charan	1005
	205	sudeep	1006
	206	Rishab Shetty	1007
	207	Teja Sajja	1008
	208	Darshan	1009
	209	NTR,Ram Charan	1010
	210	Rakshith Shetty	1011

	hero_id	hero_name	movie_id
	211	Vijay	1012
	212	Diganth	1014
	213	Yogi	1014
	214	Upendra	1016
	215	Shivarajkumar	1016
	216	Mahesh babu	1017
	217	Sha Rukh Khan	1018
	218	Ajay Devgan	1019
	219	Prabhas	1002
	220	Prabhas	1013
	221	Prabhas	1015
	222	Yash	1004

user_table

	user_id	user_name	gender	Email	AGE
▶	1	Naveen	Male	navi@gmail.com	25
	2	Jeevan	Male	jeevi@gmail.com	17
	3	Chethan	Male	chethu@gmail.com	12
	4	Thanushri	Female	thanu@gmail.com	12
	5	Niki	Male	nik@gmail.com	NULL

ratings_table

	rating_id	user_id	movie_id	movie_rating
▶	201	1	1001	5.0
	202	2	1006	3.5
	203	3	1011	4.5
	204	4	1016	3.5
	205	5	1017	3.0



➤ **Write a query to check the movie hit, average or flop?**

```
SELECT
    movie_id,
    movie_name,
    hero_name,
    CASE
        WHEN movie_budget <
movie_gross THEN 'Hit / Blockbuster'
        WHEN movie_budget >
movie_gross THEN 'Flop / Disaster'
        WHEN movie_budget =
movie_gross THEN 'Average'
    END as review
FROM
    movie_table;
```

	movie_id	movie_name	hero_name	review
	1012	Beast	Vijay	Average
	1013	Radhe Shyam	Prabhas	Flop / Disaster
	1014	Bachelor Party	Digant, Yogi	Hit / Blockbuster
	1015	Adipurush	Prabhas	Flop / Disaster
	1016	kabza	Uppendra, Sudeep, Shiva...	Average
	1017	Gunturu Karam	Mahesh babu	Average
	1018	Zero	Sha Rukh Khan	Flop / Disaster
	1019	Bhola	Ajay Devgn	Flop / Disaster
	1020	Varisu	Vijay	Flop / Flop / Disaster

➤ **Write a query to get only
movie_id,movie_name,movie_collection column**

```
select distinct movie_id,Movie_name,  
movie_budget from  
movie_table order by  
movie_budget desc;
```

	movie_id	Movie_name	movie_budget
▶	1010	RRR	350000000
	1009	Kaatera	150000000
	1015	Adipurush	110000000
	1007	Kantara	100000000
	1002	Baahubali 2	50000000
	1008	Hanu Man	50000000
	1016	kabza	15000000
	1001	Baahubali 1	10000000
	1004	KGF 2	10000000

➤ Write a query to show that the director and hero of the movie

```
select movie_table.movie_id,movie_name,  
directors_table.directors_name,  
hero_table.hero_name  
from movie_table  
inner join directors_table  
on  
movie_table.movie_id=directors_table.movie_id  
inner join hero_table  
on  
movie_table.movie_id=hero_table.movie_id  
order by movie_name asc;
```

	movie_id	movie_name	directors_name	hero_name
▶	1011	777 Charlie	Kiran Raj K	Rakshith Shetty
	1005	Acharya	Koratala Siva	Chiranjeevi,Ram Charan
	1015	Adipurush	Om Raut	Prabhas
	1001	Baahubali 1	S S Rajamouli	Prabhas
	1002	Baahubali 2	S S Rajamouli	Prabhas
	1014	Bachelor Party	Abhijith Mahesh	Digant
	1014	Bachelor Party	Abhijith Mahesh	Yogi
	1012	Beast	Nelson	Vijay
	1019	Bhola	Ajay Devagn	Ajay Devgan
	1017	Gunturu Karam	Trivikram	Mahesh babu

➤ Write a query to find specif hero's or movie gross

```
select hero_table.hero_name,  
movie_table.movie_name,movie_gross  
from movie_table  
inner join hero_table  
on  
movie_table.movie_id=hero_table.movie_id  
where hero_table.hero_name='Prabhas' or  
hero_table.hero_name='Darshan'  
or hero_table.hero_name='Yash';
```

	hero_name	movie_name	movie_gross
▶	Prabhas	Baahubali 1	50000000
	Yash	KGF 1	10000000
	Darshan	Kaatera	450000000
	Prabhas	Baahubali 2	150000000
	Prabhas	Radhe Shyam	6000000
	Prabhas	Adipurush	60000000
	Yash	KGF 2	100000000

➤ **Write a query to find the name of all the films whose director name is "S S Rajamouli"**

```
select
directors_table.directors_name,movie_table.movie_name
from movie_table
inner join directors_table
on
movie_table.movie_id=directors_table.movie_id
where directors_name = 'S S Rajamouli' ;
```

	directors_name	movie_name
▶	S S Rajamouli	Baahubali 1
	S S Rajamouli	Baahubali 2
	S S Rajamouli	RRR

➤ **List all directors along with the number of movies they have directed**

```
select
directors_table.directors_name,count(*)movie_count
from movie_table
inner join directors_table
on
movie_table.movie_id=directors_table.movie_id
group by directors_name;
```

	directors_name	movie_count
▶	S S Rajamouli	3
	Ajay Devagn	1
	Prashanth Neel	2
	Vamsi Paidipally	1
	Koratala Siva	1
	Anup Bhandari	1
	Rishab Shetty	1

- **List all users who have provided ratings and specify the corresponding movie for each rating.**

```
select
user_table.user_id,user_name,movie_table.
movie_name,movie_rating
from user_table
inner join rating_table
on user_table.user_id=rating_table.user_id
inner join movie_table
on
movie_table.movie_id=rating_table.movie_
id
where rating_table.movie_rating;
```

	user_id	user_name	movie_name	movie_rating
▶	1	Naveen	Baahubali 1	5.0
	2	Jeevan	Vikranth rona	3.5
	3	Chethan	777 Charlie	4.5
	4	Thanushri	kabza	3.5
	5	Niki	Gunturu Karam	3.0

➤ Write a query to list all the movies in "Kannada" language

```
create view aliaslangkan as
select
language_table.language_id,language,mov
ie_table.movie_name
from movie_table
join language_table
on
movie_table.movie_id=language_table.mo
vie_id
where
language_table.language='Kannada';
```

	language_id	language	movie_name
▶	1	Kannada	KGF 1
	2	Kannada	KGF 2
	3	Kannada	Vikranth rona
	4	Kannada	Kantara
	5	Kannada	777 Charlie
	6	Kannada	Bachelor Party
	19	Kannada	Kaatera
	20	Kannada	kabza

➤ **Write a query for movies released in the year between 2023 to 2024 only in kannada language**

```
select
language_table.language_id,language,mov
ie_table.movie_name
  from movie_table
  join language_table
    on
movie_table.movie_id=language_table.mo
vie_id
  where
language_table.language='Kannada'
  and movie_table.release_year between
2023 and 2024;
```

	language_id	language	movie_name
▶	6	Kannada	Bachelor Party
	19	Kannada	Kaatera
	20	Kannada	kabza



THANK YOU



Movie Review

