Section 1 Group 2 - Phase 2 M 3 - 4

SUBMISSION FOR Dr. Jidapa Kraisangka

THIS REPORT IS A PART OF ITCS241 DATABASE MANAGEMENT SYSTEMS

MAHIDOL UNIVERSITY

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY

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Business Domain

This report investigates the entertainment industry. The business domain consists of entities that produce media such as movies, prints, music, etc. The objective of the entertainment industry is to satisfy customers with its materials.

In order to compete in the industry, corporations must study and calculate the ratings of their media entities based on the feedback of their users. The intriguing aspect is that Netflix used to be a DVD rental company, but they qualified themselves to follow the globe. Therefore, Netflix was selected for analysis in this study.

Figure 1: Netflix Logo

Main activities

Netflix's business activities contains:

1. *Producing content*

Netflix is a streaming platform that provides millions of content on their platform. Netflix produces content to expand its library of videos to fulfill its customer needs. They cooperate with local studios to deliver content for their platform. They also started to create their own content called "Netflix Original" which provides great and exclusive content you cannot find anywhere else.

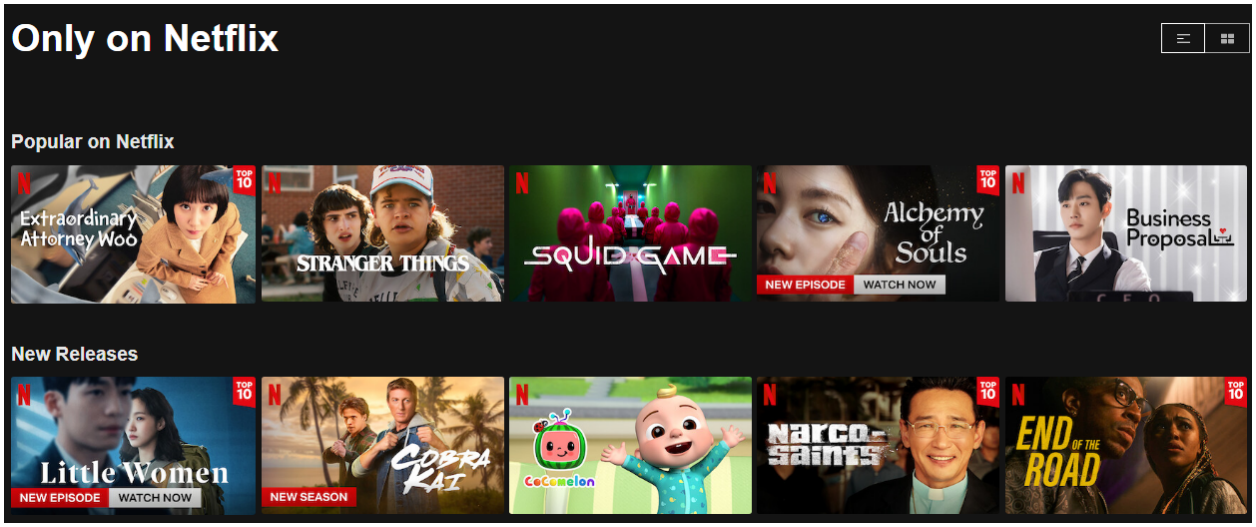


Figure 2: Screenshot of 'Netflix Original'

2. *licensing content and Laws complying*

Netflix's keys are they want to be the best streaming platform to provide the best experience to its user. They started by buying and licensing content from studios around the world to stream on their platform. By licensing content, they create a huge income for the company. Netflix's other main key is law compliance with state or regional law. Censorship of the children is one of the main responsibilities.

3. *Marketing and Subscription*

Netflix develops a great pricing strategy and adopts them to use in their business model. Netflix subscription is one of the most successful of all streaming services. With millions of content you can watch and with a cost-effective subscription, Netflix has become the biggest streaming platform that supports websites, Mobile applications, and TV applications. They use many ways to advertise their platform via paid channels, movies, TV shows, or even billboards. They also try to improve their subscription to grow their customer base.

Packages and service charges

Netflix offers a variety of packages to suit your needs. The package you choose will determine the video quality and the number of screens you can use to watch Netflix **at the same time.**

All packages can watch TV shows and movies. including unlimited mobile games

	mobile	basic	standard	Premium
Monthly service fee* (Baht)	**99 baht**	**279 baht**	**349 baht**	**419 baht**
Number of screens that can be viewed simultaneously	1	1	2	4
Number of phones or tablets that can be used to download content	1	1	2	4
Enjoy unlimited movies, TV shows and mobile games.	✓	✓	✓	✓
Watch on your mobile phone or tablet.	✓	✓	✓	✓
Watch on your laptop or TV.		✓	✓	✓
Can be viewed in HD			✓	✓
Can be viewed in Ultra HD format				✓

Figure 3: Screenshot of 'Netflix Packages'

4. *Technology development*

Netflix is hiring talented and creative staff to innovate to keep their platform in high quality. They try to improve their overall quality all the time to keep up their standard. In order to be the best quality for their customer, they need to have technological innovation. Netflix is also involved in many ways to help support disadvantaged people's communities.

5. *Influencing*

By building communities and economies to support the development of their local partner, they promote their platform in many ways. Social media, TV shows, TV channels, film, magazines, and a lot more ways let Netflix dominate in streaming service competition. Netflix built its influence by advertising to become the first choice of the customer to choose from a dozen of streaming platforms out there.

6. *Analytics*

Netflix tries to understand their customer to know what needs to be done to improve their platform. They analyze their customer behavior to check what it's like to be their customer and what taste to improve their experience. They use new tactics to analyze their customer taste by dividing their customers into groups to suit their tastes rather than using macro segmentation like the traditional ones.

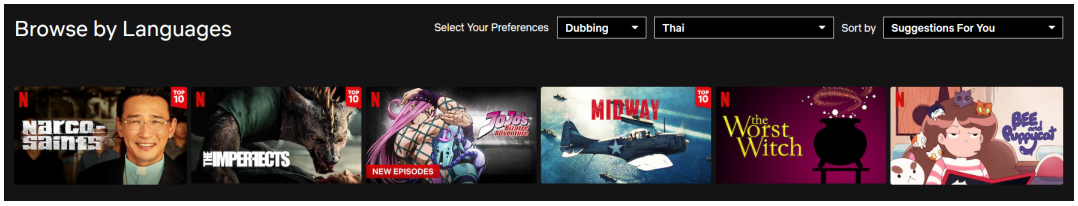
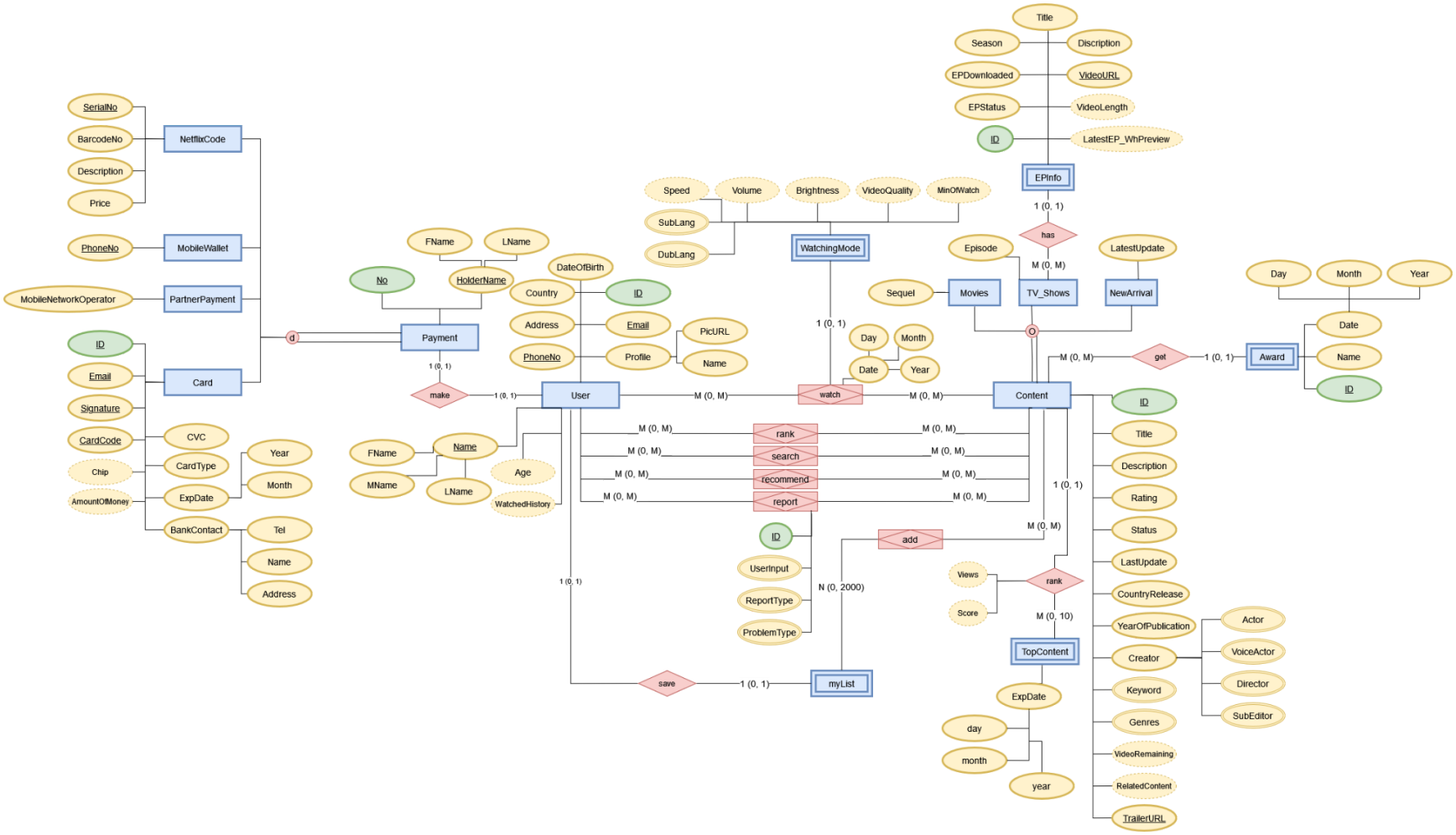


Figure 4: Screenshot of 'Browsing Suggestion For You'

Revised ERD

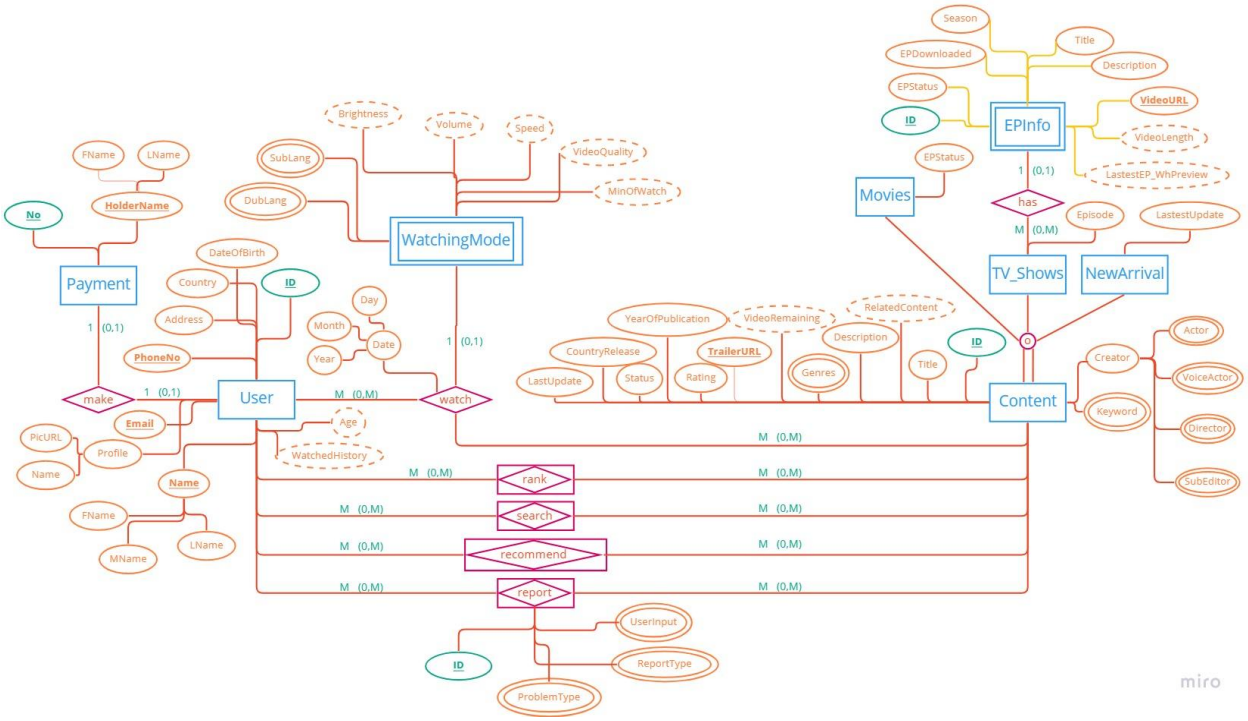

SerialNo
BarcodeNo
Description
Price
NetflixCode
PhoneNo
MobileWallet
MobileNetworkOperator
PartnerPayment
ID
Email
Signature
CardCode
Chip
AmountOfMoney
Card
CVC
CardType
ExpDate
BankContact
Year
Month
Tel
Name
Address
d
Payment
No
HolderName
FName
LName
1 (0, 1)
make
1 (0, 1)
User
DateOfBirth
Country
ID
Address
Email
PhoneNo
Profile
PicURL
Name
FName
Name
MName
LName
Age
WatchedHistory
M (0, M)
rank
search
recommend
report
M (0, M)
ID
UserInput
ReportType
ProblemType
N (0, 2000)
1 (0, 1)
save
1 (0, 1)
myList
add
M (0, M)
Speed
Volume
Brightness
VideoQuality
MinOfWatch
SubLang
DubLang
WatchingMode
1 (0, 1)
watch
Day
Month
Date
Year
Title
Season
Discription
EPDownloaded
VideoURL
EPStatus
VideoLength
ID
LatestEP_WhPreview
EPInfo
1 (0, 1)
has
M (0, M)
Episode
LatestUpdate
Sequel
Movies
TV_Shows
NewArrival
Content
M (0, M)
get
1 (0, 1)
Award
Day
Month
Year
Date
Name
ID
ID
Title
Description
Rating
Status
LastUpdate
CountryRelease
YearOfPublication
Creator
Keyword
Genres
VideoRemaining
RelatedContent
TrailerURL
Actor
VoiceActor
Director
SubEditor
1 (0, 1)
M (0, M)
Views
Score
rank
M (0, 10)
TopContent
ExpDate
day
month
year

8-steps ERD to Relational Schema

Selected Entity:

1. Payment
2. User
3. WatchingMode
4. Content
5. Movies
6. TV_Shows
7. NewArrival
8. EPInfo

ERD:



Steps1:

Regular Entity (Create a relation R for each regular entity type E)
Insert simple attributes & declare a primary key.

Payment

No	FName	LName

User

ID	Email	PhoneNo	FName	MName	LName	PName	PicURL	Address	Country	DateOfBirth

Content

ID	TrailerURL	CountryRelease	Title	Rating	LastUpdate	YearOfPublication	Description	Status

Steps2:

Weak Entity (Create a relation R for each weak entity type W)
Insert a foreign key after the primary key of the strong entity type.

Payment

No	FName	LName

User

ID	Email	PhoneNo	FName	MName	LName	PName	PicURL	Address	Country	DateOfBirth

Content

ID	TrailerURL	CountryRelease	Title	Rating	LastUpdate	YearOfPublication	Description	Status

Watching Mode

ContentID	UserID

EPInfo

Collection	ID	VideoURL	VideoLength	EPStatus	Title	Description	Season	EPDownload

Steps3:

Binary 1: 1 -> Relationship Type R (Binary 1:1 -> Relationship Type R)
Identify entities participating in.

Payment

No	FName	LName

User

ID	Email	PhoneNo	FName	MName	LName	PName	PicURL	Address	Country	DateOfBirth	PaymentNo

Content

ID	TrailerURL	CountryRelease	Title	Rating	LastUpdate	YearOfPublication	Description	Status

Watching Mode

ContentID	UserID

EPInfo

Collection	ID	VideoURL	VideoLength	EPStatus	Title	Description	Season	EPDownloaded

Steps4:

-

Steps5:

Binary M: N -> Relationship Type R

In the relational database schema, many-to-many relationships are represented by utilizing the new relation E3. E3 includes the FK obtained from the PK of the two entities and then uses the combination of FK to form the PK of E3. In this step, we created the relations recommend, rank, report, and search, each containing the FK of their connected entities to form the PK of the table.

Payment

No	FName	LName

User

ID	Email	PhoneNo	FName	MName	LName	PName	PicURL	Address	Country	DateOfBirth	PaymentNo

Content

ID	TrailerURL	CountryRelease	Title	Rating	LastUpdate	YearOfPublication	Description	Status

Watching Mode

ContentID	UserID

EPInfo

Collection	ID	VideoURL	VideoLength	EPStatus	Title	Description	Season	EPDownloaded

Recommend

ContentID	UserID

Rank

ContentID	UserID

Report

ContentID	UserID	ID

Search

ContentID	UserID

Steps6:

Multi-Valued Attribute

Each multivalued attribute requires the creation of a new relationship. Such a relation requires the PK of the entity it belongs to and a PK corresponding to the value of the attribute. In this step, we implemented the multi valued attributes reportType, user input, and problem type in the relational database schema.

Payment

No	FName	LName

User

ID	Email	PhoneNo	FName	MName	LName	PName	PicURL	Address	Country	DateOfBirth	PaymentNo

Content

ID	TrailerURL	CountryRelease	Title	Rating	LastUpdate	YearOfPublication	Description	Status

Watching Mode

ContentID	UserID

EPInfo

Collection	ID	VideoURL	VideoLength	EPStatus	Title	Description	Season	EPDownloaded

Recommend

ContentID	UserID

Rank

ContentID	UserID

Report

ContentID	UserID	ID

Search

ContentID	UserID

ReportType

ReportID	ReportType

UserInput

ReportID	UserInput

ProblemType

ReportID	ProblemType

DubLang

DubLang

SubLang

SubLang

Genres

ContentID	Genres

Keyword

ContentID	Keyword

Actor

ContentID	Actor

VoiceActor

ContentID	VoiceActor

Director

ContentID	Director

SubEditor

ContentID	SubEditor

Steps7:

N-ary Relationship

Transforming relationships that have linked more than two entities with primary keys around it and the relationship's components.

Payment

No	FName	LName

User

ID	Email	PhoneNo	FName	MName	LName	PName	PicURL	Address	Country	DateOfBirth	PaymentNo

Content

ID	TrailerURL	CountryRelease	Title	Rating	LastUpdate	YearOfPublication	Description	Status

Watching Mode

ContentID	UserID

EPInfo

Collection	ID	VideoURL	VideoLength	EPStatus	Title	Description	Season	EPDownloaded

Recommend

ContentID	UserID

Rank

ContentID	UserID

Report

ContentID	UserID	ID

Search

ContentID	UserID

ReportType

ReportID	ReportType

UserInput

ReportID	UserInput

ProblemType

ReportID	ProblemType

DubLang

DubLang

SubLang

SubLang

Genres

ContentID	Genres

Keyword

ContentID	Keyword

Actor

ContentID	Actor

VoiceActor

ContentID	VoiceActor

Director

ContentID	Director

SubEditor

ContentID	SubEditor

Watch

ContentID	UserID	Day	Month	Year

Steps8:

Transforming Specialization or Generalization

In this step, we created the relationships for the super classes, including the super class attributes. We created a relation for each subclass, which includes the PK of the superclass and the attributes of the subclass specialization. e.g., TV_Shows, NewArrival.

Payment

No	FName	LName

User

ID	Email	PhoneNo	FName	MName	LName	PName	PicURL	Address	Country	DateOfBirth	PaymentNo

Content

ID	TrailerURL	CountryRelease	Title	Rating	LastUpdate	YearOfPublication	Description	Status

Watching Mode

ContentID	UserID

EPInfo

Collection	ID	VideoURL	VideoLength	EPStatus	Title	Description	Season	EPDownloaded

Recommend

ContentID	UserID

Rank

ContentID	UserID

Report

ContentID	UserID	ID

Search

ContentID	UserID

ReportType

ReportID	ReportType

UserInput

ReportID	UserInput

ProblemType

ReportID	ProblemType

DubLang

DubLang

SubLang

SubLang

Genres

ContentID	Genres

Keyword

ContentID	Keyword

Actor

ContentID	Actor

VoiceActor

ContentID	VoiceActor

Director

ContentID	Director

SubEditor

ContentID	SubEditor

Watch

ContentID	UserID	Day	Month	Year

Movies

ContentID	Sequel

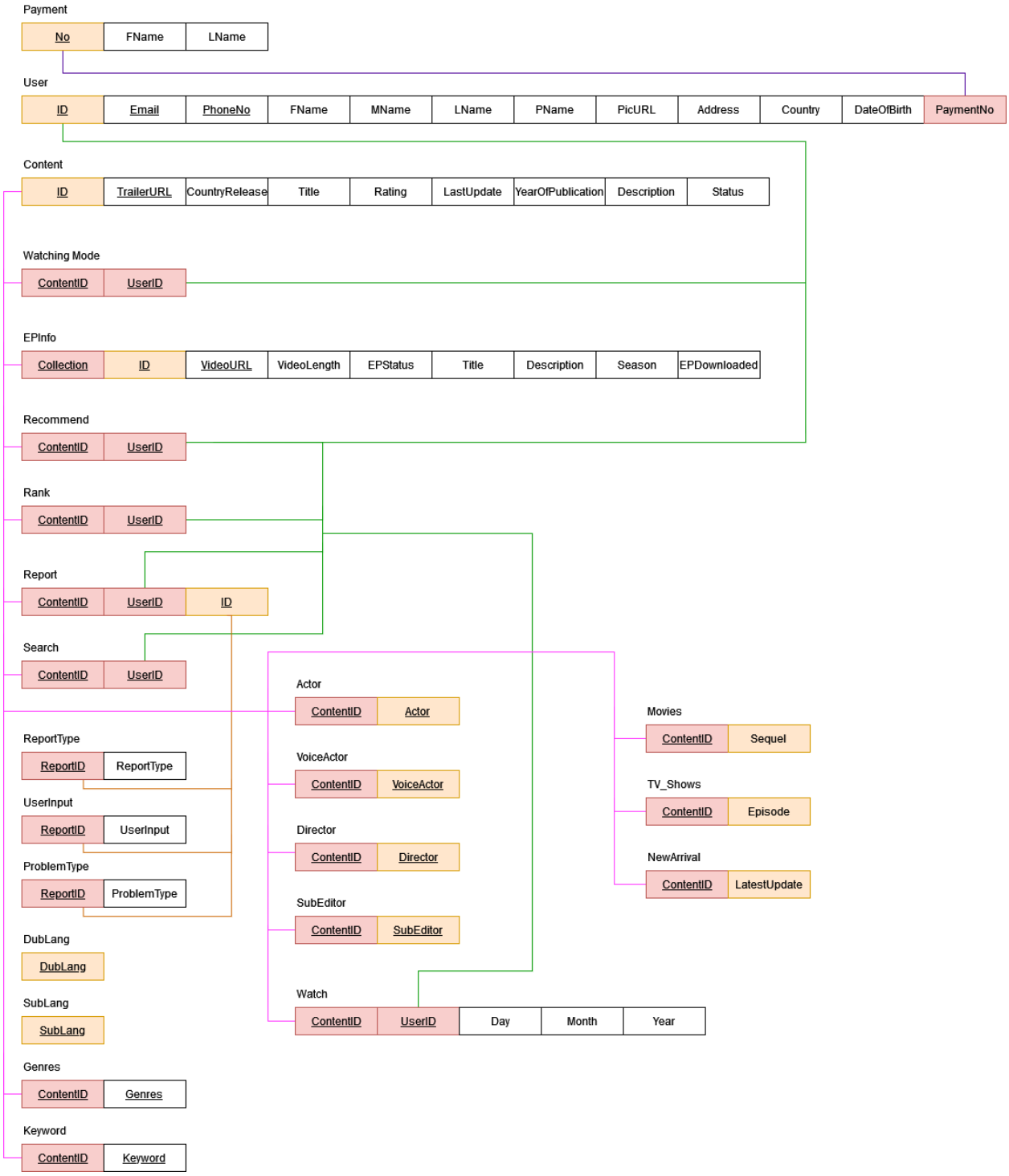
TV_Shows

ContentID	Episode

NewArrival

ContentID	LatestUpdate

The Final Relational Schema



Data Dictionary

Payment							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
No	int	Xxxxxxxx		PK		Payment Number	8445297
FName	varchar(20)	Xxxxxxx				Payer's first name	Marita
LNAme	varchar(20)	Xxxxxxx				Payer's last name	MacCàba

User							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ID	int	Xxxxxxxx		PK		User ID	56849750
Email	nvarchar(100)	xxxxxxxx@xxxx.xxx				User Email	elonm@gmail.com
PhoneNo	nvarchar(20)	xx-xxx-xxx-xxxx				User PhoneNo	1-412-456-6591
FName	varchar(20)	Xxxxxxx				User's first name	Elon
MName	varchar(20)	Xxxxxxx	Y			User's middle name	Reeve
LName	varchar(20)	Xxxxxxx				User's last name	Musk
PName	nvarchar(20)	Xxxxxxx				User's profile name	Elon
PicURL	nvarchar(500)	https://xxxxxxx.xxx				User's profile picture URL	https://netflix.profile.picture=01.org
Address	nvarchar(500)					User's address	412 Rr 2 Pearson, Georgia(GA), 31642
Country	varchar(20)	Xxxxxxx				User's country	USA
DateOfBirth	date	xxxx-xx-xx				User's birthdate	1997-04-24
PaymentNo	int	Xxxxxxxx		FK	Payment[No]	Payment Number	8445297

Content							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ID	nchar(10)	xxxxxxxxxx		PK		Content ID	AD@15FO88
TrailerURL	nvarchar(500)	https://xxxxxxx.xxx				Content Trailer URL	https://www.netflix.com/search?q=spy&jbv=
CountryRelease	varchar(20)	Xxxxxxx				Content Country Release	Japan
Title	varchar(100)	Xxxxxxx				Content Title	Spy x Family
Rating	nvarchar(5)	Xx+				Content Rating	13+
LastUpDate	datetime	xxxx-xx-xx xx:xx:xx				Content LastUpDate	2022-11-05 15:00:01
YearOfPublicati	int	xxxx				Content Year Of Publication	2022
Description	nvarchar(500)					Content Description	Tasked with getting close to a high-ranking p
Status	bit	x				Content Status (Preview = 0/Available = 1)	0

Actor							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
Actor	nvarchar(50)	Xxxxxxx		PK		Main Actors Name	Ben Affleck
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88

SubEditor							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
SubEditor	nvarchar(50)	Xxxxxxx		PK		SubEditor Name	Chen Wang
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88

VoiceActor							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
VoiceActor	nvarchar(50)	Xxxxxxx		PK		VoiceActor Name	Hao Nin
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88

Director							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
Director	nvarchar(50)	Xxxxxxx		PK		Director, Project Mnager or creator Name	James Taylor
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88

EPInfo							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ID	int	xxx		PK		ID of Episode Info	2
VideoURL	nvarchar(500)	https://xxxxxxx.xxx				Video URL	https://www.netflix.com/watch/81511414?tra
VideoLength	varchar(14)	xxh xxm				Length of the video	24m
EPStatus	bit	x				Episode status	1
EPDownloaded	bit	x				Episode Downloaded	0
Title	varchar(100)					Title	Secure a Wife
Description	nvarchar(500)					Description	Needing someone to act as Anya's mother f
Season	int	xx	Y			Season of movie	1
Collection	nchar(10)	xxxxxxxxxx	Y	FK	Content[ID]	Sequel of the series	AD@15FO88

Recommend							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88
UserID	int	Xxxxxxxx		FK	User[ID]	User ID	369152487

Ranks							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88
UserID	int	Xxxxxxxx		FK	User[ID]	User ID	369152487

Report							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ID	bigint	xxxxxxxxxx		PK		Report ID	4525875201
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88
UserID	int	Xxxxxxxx		FK	User[ID]	User ID	56849750

Search							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88
UserID	int	Xxxxxxxx		FK	User[ID]	User ID	56849750

ReportType							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ReportType	varchar(20)	xxxxxxxx				Type of Report	Content
ReportTID	bigint	xxxxxxxxxx		FK + PK	Report[reportID]	Report ID	4525875201

UserInput							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
UserInput	nvarchar(1000)		Y			User Input	I think the rating is too low
ReportTID	int	xxxxxxxxxx		FK + PK	Report[reportID]	Report ID	4525875201

ProblemType							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ProblemType	varchar(20)	xxxxxxxx				Type of Problem	Rating
ReportTID	int	xxxxxxxxxx		FK + PK	Report[reportID]	Report ID	4525875201

Dublang							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
Dublang	varchar(20)	xxxxxxxx		PK		Dubbing in language	English

Sublang							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
Sublang	varchar(20)	xxxxxxxx		PK		Subtitle in language	English

Genres							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
Genres	varchar(50)	xxxxxxxx		PK		Genres	Action
ContentID	nchar(10)			FK	Content[ID]	Content ID	AD@15FO88

Keyword							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
Keyword	nvarchar(200)	xxxxxxxx		PK			spy
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88

Watch							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88
UserID	int	Xxxxxxxx		FK	User[ID]	User ID	56849750

Movies							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88
Squel	int	xx	Y			Squels of a movie	12

TV_Shows							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88
Episode	int	xxx				Episodes contain in TV Shows	

NewArrival							
Field Name	Datatype	Data Format	Nullable	Key	FK Ref Table	Description	Example
ContentID	nchar(10)	xxxxxxxxxx		FK	Content[ID]	Content ID	AD@15FO88
LatestUpdate	datetime	xxxx-xx-xx xx:xx:xx				Latest Update	2022-11-11 21:23:11

Table Description

Create Tables (DDL & DML)

```
create table Payment (
        `No` int primary key,
        `FName` varchar(20) not null,
        `LName` varchar(20) not null
);

insert into Payment (`No`, `FName`, `Lname`) values
(8445297, 'Elon', 'Musk'),
(1548242, 'Gerard', 'Way'),
(5417895, 'Stacey', 'Ryan'),
(5258460, 'Thomas', 'Shelby'),
(2514879, 'Young', 'Woo');
```

Payment		
No	FName	LName
8445297	Elon	Musk
1548242	Gerard	Way
5417895	Stacey	Ryan
5258460	Thomas	Shelby
2514879	Young	Woo

```
create table User (
        `ID` int primary key,
        `Email` nvarchar(100) not null,
        `PhoneNo` nvarchar(20) not null,
        `FName` varchar(20) not null,
        `MName` varchar(20),
        `LName` varchar(20) not null,
        `PName` nvarchar(20) not null,
        `PicURL` nvarchar(500) not null,
        `Address` nvarchar(500) not null,
        `Country` varchar(20) not null,
        `DateOfBirth` date not null,
        `PaymentNo` int not null,
        Constraint FK_User_PaymentNo Foreign Key (PaymentNo)
        References Payment (No)
```

```
);

insert into User (`ID`, `Email`, `PhoneNo`, `FName`, `MName`, `LName`, `PName`, `PicURL`,
`Address`, `Country`, `DateOfBirth`, `PaymentNo`) values
(36915248, 'elonm@gmail.com', '1-412-456-6591', 'Elon', 'Reeve', 'Musk', 'Elon',
'https://netflix.profile.picture=01.com', '412 Rr 2 Pearson, Georgia(GA), 31642',
'USA','1997-04-24', 8445297),
(74185296, 'gway@gmail.com', '1-398-456-1234', 'Gerard', 'Arthur', 'Way', 'Gerard',
'https://netflix.profile.picture=03.com', '3014 Vance Ave Texas City, Texas(TX), 77590', 'USA',
'1988-06-13', 1548242),
(48579625, 'staceyryan@gmail.com', '1-891-457-1478', 'Stacey', null, 'Ryan', 'Stacey',
'https://netflix.profile.picture=01.com', '99 Arcadia Rd Hope Valley, Rhode Island(RI), 02832',
'USA', '1992-12-03', 5417895),
(79461357, 'tommyshelby@gmail.com', '1-175-451-1478', 'Thomas', null, 'Shelby', 'Tommy',
'https://netflix.profile.picture=02.com', '1206 1st St SW Cedar Rapids, Iowa(IA), 52404', 'USA',
'1992-05-14', 5258460),
(96136516, 'wyw@gmail.com', '82-12-1234-1234', 'Young', 'Wei', 'Woo', 'Young_Woo',
'https://netflix.profile.picture=01.com', '2105 Regency Dr Flower Mound, Texas(TX), 75028',
'USA', '1992-04-23', 2514879);
```

User

ID	Email	PhoneNo	FName	MName	LName	PName	PicURL	Address	Country	DateOfBirth	PaymentNo
36915248	lonm@gmail.cor	1-412-456-6591	Elon	Reeve	Musk	Elon	tflix.profile.pictur	earson, Georgia(G	USA	1997-04-24	8445297
74185296	gway@gmail.cor	1-398-456-1234	Gerard	Arthur	Way	Gerard	tflix.profile.pictur	Ave Texas City, Tex	USA	1988-06-13	1548242
48579625	ceyryan@gmail.c	1-891-457-1478	Stacey		Ryan	Stacey	tflix.profile.pictur	ope Valley, Rhode	USA	1992-12-03	5417895
79461357	myshelby@gmail.	1-175-451-1478	Thomas		Shelby	Tommy	tflix.profile.pictur	V Cedar Rapids, Io	USA	1992-05-14	5258460
96136516	wyw@gmail.com	82-12-1234-1234	Young	Wei	Woo	Young_Woo	tflix.profile.pictur	Dr Flower Mound,	USA	1992-04-23	2514879

```
create table Content (
        `ID` nchar(10) primary key,
        `TrailerURL` nvarchar(500) not null,
        `CountryRelease` varchar(20) not null,
        `Title` varchar(100) not null,
        `rating` nvarchar(5) not null,
        `LastUpDate` datetime not null,
        `yearOfPublication` int  not null,
        `Description` nvarchar(500) not null,
        `Status` bit not null
);

insert into Content (`ID`, `TrailerURL`, `CountryRelease`, `Title`, `rating`, `LastUpDate`,
`yearOfPublication`, `Description`, `Status`) values
```

('AD@15FO88', 'https://www.netflix.com/search?q=spy&jbv=81511410', 'Japan', 'Spy x Family', '13+', '2022-11-05', 2022, 'Tasked with getting close to a high-ranking politician in a neighboring country, an elite spy adopts a young girl to strengthen his cover.', 1),
('AKD@58F21', 'https://www.netflix.com/search?q=Extraordinar&jbv=81518991', 'Korean', 'Extraordinary Attorney Woo', '16+', '2022-10-13', 2022, 'On her first day at a new job, Woo Young-woo meets an ally, a skeptic and an old acquaintance. She takes on an assault case involving an elderly couple.', 1),
('OIF@548SD', 'https://www.netflix.com/search?q=Peaky%20Blinders&jbv=80002479', 'US', 'Peaky Blinders', '16+', '2022-05-13', 2013, 'A brutal, working-class gang, named for the razor blades they sewed into their caps to slash enemies, vies for power in Birmingham, England.', 1),
('OIF@577SD', 'https://www.netflix.com/search?q=The%20Boys&jbv=81000365', 'USA', 'The Boys', '16+', '2022-11-02', 2019, 'At a birthday party in 1968 New York, a surprise guest and a drunken game leave seven gay friends reckoning with unspoken feelings and buried truths.', 1),
('AKD@621S8', 'https://www.netflix.com/search?q=Stranger%20Things&jbv=80057281', 'USA', 'Stranger Things', '16+', '2022-09-23', 2016, 'Nancy has sobering visions, and El passes an important test. Back in Hawkins, the gang gathers supplies and prepares for battle.', 1);

Content

ID	TrailerURL	CountryRelease	Title	Rating	LastUpDate	YearOfPublication	Description	Status
AD@15FO88	x.com/search?q=	Japan	Spy x Family	13+	2022-11-05	2022	neighboring count	1
AKD@58F21	m/search?q=Extra	Korean	ordinary Attorney	16+	2022-10-13	2022	ic and an old acc	1
OIF@548SD	search?q=Peaky%	US	Peaky Blinders	16+	2022-05-13	2013	y sewed into their	1
OIF@577SD	m/search?q=The%	USA	The Boys	16+	2022-11-02	2019	en game leave sev	1
AKD@621S8	search?q=Strange	USA	Stranger Things	16+	2022-09-23	2016	test. Back in Haw	1

```
create table Actor (
	`Actor` nvarchar(50) primary key,
	`ContentID` nchar(10) not null,
	Constraint FK_Actor_ContentID Foreign Key (ContentID)
	References Content (ID)
);

insert into Actor (`Actor`, `ContentID`) values
('Anya Forger', 'AD@15FO88'),
('Yor Forger', 'AD@15FO88'),
('Lold Forger', 'AD@15FO88'),
('Park Eun-bin', 'AKD@58F21'),
('Kang Tae-oh', 'AKD@58F21');
```

Actor	
Actor	ContentID
ger, Yor Forger, Lo	AD@15FO88
, Kang Tae-oh, Ko	AKD@58F21
hy, Sam Neill, Hele	OIF@548SD
, Zachary Quinto,	OIF@577SD
David Harbour, Mill	AKD@621S8

```
create table SubEditor (
	`SubEditor` nvarchar(50) primary key,
	`ContentID` nchar(10) not null,
	Constraint FK_SubEditor_ContentID Foreign Key (ContentID)
	References Content (ID)
);

insert into SubEditor (`SubEditor`, `ContentID`) values
('Nana Onishi', 'AD@15FO88'),
('Hyun-soo Cho', 'AKD@58F21'),
('Oscar Smith', 'OIF@548SD'),
('Luis Lewis', 'OIF@577SD'),
('Zara Kyle', 'AKD@621S8');
```

SubEditor	
SubEditor	ContentID
Nana Onishi	AD@15FO88
Hyun-soo Cho	AKD@58F21
Oscar Smith	OIF@548SD
Luis Lewis	OIF@577SD
Zara Kyle	AKD@621S8

```
create table VoiceActor (
	`VoiceActor` nvarchar(50) primary key,
	`ContentID` nchar(10) not null,
	Constraint FK_VoiceActor_ContentID Foreign Key (ContentID)
	References Content (ID)
);

insert into VoiceActor () values
('Takuya Eguchi', 'AD@15FO88'),
('Atsumi Tanezaki', 'AD@15FO88'),
```

('Saori Hayami', 'AD@15FO88'),
('Ezra Weisz', 'AKD@58F21'),
('Brick Patrick', 'AKD@58F21');

VoiceActor	
VoiceActor	ContentID
ni, Atsumi Tanezaki,	AD@15FO88
ra Weisz, Brick Patr	AKD@58F21
phy, Sam Neill, Hele	OIF@548SD
s, Zachary Quinto,	OIF@577SD
David Harbour, Mill	AKD@621S8

```
create table Director (
	`Director` nvarchar(50) primary key,
	`ContentID` nchar(10) not null,
	Constraint FK_Director_ContentID Foreign Key (ContentID)
	References Content (ID)
);

insert into Director (`Director`, `ContentID`) values
('Tatsuya Endo', 'AD@15FO88'),
('Yoo In-shik', 'AKD@58F21'),
('Otto Bathurst', 'OIF@548SD'),
('Joe Mantello', 'OIF@577SD'),
('The Duffer Brothers', 'AKD@621S8');
```

Director	
Director	ContentID
Tatsuya Endo	AD@15FO88
Yoo In-shik	AKD@58F21
Otto Bathurst	OIF@548SD
Joe Mantello	OIF@577SD
The Duffer Brothers	AKD@621S8

```
create table EPInfo (
	`ID` int primary key,
	`VideoURL` nvarchar(500) not null,
	`VideoLength` varchar(14) not null,
	`EPStatus` bit not null,
	`EPDownloaded` bit not null,
```

```
        `Title`    varchar(100) not null,
        `Description` nvarchar(500) not null,
        `Season` int,
        `Collection` nchar(10),
        Constraint FK_EPInfo_Collection Foreign Key (`Collection`)
        References Content (ID)
);

insert into EPInfo (`ID`, `VideoURL`, `VideoLength`, `EPStatus`, `EPDownloaded`, `Title`,
`Description`, `Season`, `Collection`) values
(1,
'https://www.netflix.com/watch/81511413?trackId=14170289&tctx=2%2C0%2C3bd4f607-72fd-
4f56-921f-8495f29dc1a2-32678216%2CNES_BC10D938AF2DF9CFA93713A4FA0FFC-99491
1DC4F528C-9544D3D2B9_p_1668155996837%2CNES_BC10D938AF2DF9CFA93713A4FA0
FFC_p_1668155996837%2C%2C%2C%2C81511410', '24m', 1, 0, 'Operation Strix', 'Tasked
with getting close to a high-ranking politician in a neighboring country, an elite spy adopts a
young girl to strengthen his cover.'
, 1, 'AD@15FO88'),
(2,
'https://www.netflix.com/watch/81511414?trackId=14170289&tctx=2%2C0%2C3bd4f607-72fd-
4f56-921f-8495f29dc1a2-32678216%2CNES_BC10D938AF2DF9CFA93713A4FA0FFC-99491
1DC4F528C-9544D3D2B9_p_1668155996837%2C%2C%2C%2C%2C81511410', '24m', 1, 0,
'Secure a Wife', 'Needing someone to act as Anyas mother for an interview at Eden College, Loid
searches for a wife. He meets a beautiful young lady in a boutique.', 1, 'AD@15FO88'),
(3,
'https://www.netflix.com/watch/81511415?trackId=14170289&tctx=2%2C0%2C3bd4f607-72fd-
4f56-921f-8495f29dc1a2-32678216%2CNES_BC10D938AF2DF9CFA93713A4FA0FFC-99491
1DC4F528C-9544D3D2B9_p_1668155996837%2C%2C%2C%2C%2C81511410', '24m', 1, 0,
'Prepare for the Entrance Exam', 'After Yor moves into the Forger house, Loid takes her and
Anya on an outing so they can all learn how to conduct themselves as an upper-class family.', 1,
'AD@15FO88'),
(4,
'https://www.netflix.com/watch/81511416?trackId=14170289&tctx=2%2C0%2C3bd4f607-72fd-
4f56-921f-8495f29dc1a2-32678216%2CNES_BC10D938AF2DF9CFA93713A4FA0FFC-99491
1DC4F528C-9544D3D2B9_p_1668155996837%2C%2C%2C%2C%2C81511410', '24m', 1, 0,
'An Interview at a Prestigious School', 'As Loid and his family arrive at Eden College for Anyas
interview, the exacting housemaster Henderson observes and judges their behavior from afar.', 1,
'AD@15FO88'),
(5,
'https://www.netflix.com/watch/81511417?trackId=14170289&tctx=2%2C0%2C3bd4f607-72fd-
```

4f56-921f-8495f29dc1a2-32678216%2CNES_BC10D938AF2DF9CFA93713A4FA0FFC-99491
1DC4F528C-9544D3D2B9_p_1668155996837%2C%2C%2C%2C%2C81511410', '24m', 1, 0,
'Pass or Fail?', 'Feeling dejected after viewing the results of the entrance exam, Loid and his
family run into Henderson, who gives them some encouraging information.', 1, 'AD@15FO88');

EPInfo

ID	VideoURL	VideoLength	EPStatus	EPDownloaded	Title	Description	Season	Collection
1	2DF9CFA93713A4F	24m	1	0	Operation Strix	neighboring count	1	AD@15FO88
2	32678216%2CNES_	24m	1	0	Secure a Wife	en College, Loid se	1	AD@15FO88
3	32678216%2CNES_	24m	1	0	re for the Entrance	an outing so they	1	AD@15FO88
4	32678216%2CNES_	24m	1	0	view at a Prestigiou	the exacting hous	1	AD@15FO88
5	32678216%2CNES_	24m	1	0	Pass or Fail?	oid and his family n	1	AD@15FO88

```
create table Recommend (
        `ContentID` nchar(10),
        `UserID` int,
        Constraint FK_Recommend_ContentID Foreign Key (ContentID)
        References Content (ID),
        Constraint FK_Recommend_UserID Foreign Key (UserID)
        References User (ID)
);

insert into Recommend (`ContentID`, `UserID`) values
('AD@15FO88', 36915248),
('AKD@58F21', 74185296),
('OIF@548SD', 48579625),
('OIF@577SD', 79461357),
('AKD@621S8', 96136516);
```

Recommend

ContentID	UserID
AD@15FO88	36915248
AKD@58F21	74185296
OIF@548SD	48579625
OIF@577SD	79461357
AKD@621S8	96136516

```
create table Ranks (
        `ContentID` nchar(10),
        `UserID` int,
        Constraint FK_Ranks_ContentID Foreign Key (ContentID)
```

```
        References Content (ID),
        Constraint FK_Ranks_UserID Foreign Key (UserID)
        References User (ID)
);

insert into Ranks (`ContentID`, `UserID`) values
('AD@15FO88', 36915248),
('AKD@58F21', 74185296),
('OIF@548SD', 48579625),
('OIF@577SD', 79461357),
('AKD@621S8', 96136516);
```

Ranks	
ContentID	UserID
AD@15FO88	36915248
AKD@58F21	74185296
OIF@548SD	48579625
OIF@577SD	79461357
AKD@621S8	96136516

```
create table Report (
        `reportID` bigint primary key,
        `ContentID` nchar(10),
        `UserID` int,
        Constraint FK_Report_ContentID Foreign Key (ContentID)
        References Content (ID),
        Constraint FK_Report_UserID Foreign Key (UserID)
        References User (ID)
);

insert into Report (`reportID`, `ContentID`, `UserID`) values
(1234567890, 'AD@15FO88', 36915248),
(5487965213, 'AKD@58F21', 74185296),
(5874136598, 'OIF@548SD', 48579625),
(4785125414, 'OIF@577SD', 79461357),
(5698632104, 'AKD@621S8', 96136516);
```

Report		
ReportID	ContentID	UserID
1234567890	AD@15FO88	36915248
5487965213	AKD@58F21	74185296
5874136598	OIF@548SD	48579625
4785125414	OIF@577SD	79461357
5698632104	AKD@621S8	96136516

```
create table Search (
        `ContentID` nchar(10),
        `UserID` int,
        Constraint FK_Search_ContentID Foreign Key (ContentID)
        References Content (ID),
        Constraint FK_Search_UserID Foreign Key (UserID)
        References User (ID)
);

insert into Search (`ContentID`, `UserID`) values
('AD@15FO88', 36915248),
('AKD@58F21', 74185296),
('OIF@548SD', 48579625),
('OIF@577SD', 79461357),
('AKD@621S8', 96136516);
```

Search	
ContentID	UserID
AD@15FO88	36915248
AKD@58F21	74185296
OIF@548SD	48579625
OIF@577SD	79461357
AKD@621S8	96136516

```
create table ReportType (
        `ReportType` varchar(20),
   `reportTID` bigint,
        primary key (reportTID),
   Constraint FK_Reportype_ReportID Foreign Key (reportTID)
        References Report (reportID)
);
```

```
insert into ReportType (`ReportType`, `reportTID`) values
('Content', 1234567890),
('Content', 5487965213),
('Technical', 5874136598),
('Technical', 4785125414),
('Content', 5698632104);
```

ReportType	
ReportType	ReportTID
Content	1234567890
Content	5487965213
Technical	5874136598
Technical	4785125414
Content	5698632104

```
create table UserInput (
	`UserInput` nvarchar(1000),
	`reportID` bigint,
	primary key (reportID),
	Constraint FK_UserInput_ReportID Foreign Key (reportID)
	References Report (reportID)
);

insert into UserInput (`UserInput`, `reportID`) values
('The volume of this episode is too loud, much louder than other episodes.', 1234567890),
('Episodes 5 and 6 of Spy x Family Season 1 are in incorrect order.', 5487965213),
('The video doesnt play, it keeps on spinning...', 5874136598),
('Every time I try to watch "The Matrix" my client crashes', 4785125414),
('The French dub of "Peaky Blinders" occasionally uses Spanish instead', 5698632104);
```

UserInput	
UserInput	ReportID
is too loud, much	1234567890
y x Family Season	5487965213
esn't play, it keeps	5874136598
watch "The Matrix"	4785125414
y Blinders" occasio	5698632104

```
create table ProblemType (
        `ProblemType` varchar(20),
        `reportID` bigint,
        primary key (reportID),
        Constraint FK_ProblemType_ReportID Foreign Key (reportID)
        References Report (reportID)
);

insert into ProblemType (`ProblemType`, `reportID`) values
('Volume Level', 1234567890),
('Order', 5487965213),
('Buffering', 5874136598),
('Crash', 4785125414),
('Translation Error', 5698632104);
```

ProblemType

ProblemType	ReportID
Volume Level	1234567890
Order	5487965213
Buffering	5874136598
Crash	4785125414
Translation Error	5698632104

```
create table Dublang (
        `Dublang` varchar(20) primary key
);

insert into Dublang (`Dublang`) values
('English'),
('Spanish'),
('Mandarin'),
('Hindi'),
('Arabic');
```

Dublang

Dublang
English
Spanish
Mandarin
Hindi
Arabic

```
create table Sublang (
	`Sublang` varchar(20) primary key
);

insert into Sublang (`Sublang`) values
('English'),
('Spanish'),
('Mandarin'),
('Hindi'),
('Arabic');
```

Sublang
Sublang
English
Spanish
Mandarin
Hindi
Arabic

```
create table Genres (
	`Genres` varchar(50) primary key,
	`ContentID` nchar(10),
	Constraint FK_Genres_ContentID Foreign Key (ContentID)
	References Content (ID)
);

insert into Genres (`Genres`, `ContentID`) values
('Drama Anime', 'AD@15FO88'),
('TV Shows Based on Manga', 'AD@15FO88'),
('Japanese', 'AD@15FO88'),
('Korean', 'AKD@58F21'),
('Courtroom TV Shows', 'AKD@58F21');
```

Genres

Genres	ContentID
Drama Anime	AD@15FO88
ows Based on M	AD@15FO88
Japanese	AD@15FO88
Korean	AKD@58F21
ourtroom TV Sho	AKD@58F21

```
create table Keyword (
        `Keyword` nvarchar(200) primary key,
        `ContentID` nchar(10),
        Constraint FK_Keyword_ContentID Foreign Key (ContentID)
        References Content (ID)
);

insert into Keyword (`Keyword`, `ContentID`) values
('spy', 'AD@15FO88'),
('family', 'AD@15FO88'),
('yor', 'AD@15FO88'),
('anya', 'AD@15FO88'),
('Warmth', 'AD@15FO88');
```

Keyword

Keyword	ContentID
spy	AD@15FO88
family	AD@15FO88
yor	AD@15FO88
anya	AD@15FO88
Warmth	AD@15FO88

```
create table Watch (
        `ContentID` nchar(10),
        `UserID` int,
        Constraint FK_Watch_ContentID Foreign Key (ContentID)
        References Content (ID),
        Constraint FK_Watch_UserID Foreign Key (UserID)
        References User (ID)
);
```

```
insert into Watch (`ContentID`, `UserID`) values
('AD@15FO88', '36915248'),
('AKD@58F21', '74185296'),
('OIF@548SD', '48579625'),
('OIF@577SD', '79461357'),
('AKD@621S8', '96136516');
```

Watch	
ContentID	UserID
AD@15FO88	36915248
AKD@58F21	74185296
OIF@548SD	48579625
OIF@577SD	79461357
AKD@621S8	96136516

```
create table Movies (
        `ContentID` nchar(10),
        `Sequel` int,
        Constraint FK_Movies_ContentID Foreign Key (ContentID)
        References Content (ID)
);

insert into Movies (`ContentID`, `Sequel`) values
('GAL@LA5GD', 2),
('JAJ@NOV11', 1),
('BB@ILUQ12', 1),
('CSV@AAD55', 2),
('OUT@888WQ', 1);
```

Movies	
ContentID	Sequel
GAL@LA5GD	2
JAJ@NOV11	1
BB@ILUQ12	1
CSV@AAD55	2
OUT@888WQ	1

```
create table TV_Shows (
        `ContentID` nchar(10),
```

```
	`Episode` int,
	Constraint FK_TVShows_ContentID Foreign Key (ContentID)
	References Content (ID)
);

insert into TV_Shows (`ContentID`, `Episode`) values
('AD@15FO88', 18),
('AKD@58F21', 16),
('OIF@548SD', 36),
('MNN@49TYT', 12),
('AKD@621S8', 34);
```

TV_Shows	
ContentID	Episode
AD@15FO88	18
AKD@58F21	16
OIF@548SD	36
MNN@49TYT	12
AKD@621S8	34

```
create table NewArrival (
	`ContentID` nchar(10),
	`LatestUpdate` datetime,
	Constraint FK_NewArrival_ContentID Foreign Key (ContentID)
	References Content (ID)
);

insert into NewArrival (`ContentID`, `LatestUpdate`) values
('AD@15FO88', '2022-11-05'),
('AKD@58F21', '2022-10-13'),
('OIF@548SD', '2022-05-13'),
('OIF@577SD', '2022-11-02'),
('AKD@621S8', '2022-07-01');
```

NewArrival	
ContentID	LastestUpdate
AD@15FO88	2022-11-05
AKD@58F21	2022-10-13
OIF@548SD	2022-05-13
OIF@577SD	2022-11-02
AKD@621S8	2022-07-01

SQL Queries

Description, statement and Result of basic queries

---

(1)

Description of the query: Show all the USA users' ID and full name.

SQL Statement:

```
/* 1.1 : ALL User USA  */
SELECT ID, CONCAT(FName, " ", Lname) AS 'Name'
FROM User
WHERE Country = 'USA'
ORDER BY ID ASC;
```

The results of the query: 20 row(s) returned

ID	Name
12312312	Adam Brown
12345678	Mike Smith
29913417	Peter Taylor
33266262	Richard Morgan
34854761	Tyler Delaney
36915248	Elon Musk
41131929	Henry Peterson
42801442	Sean Parker
44947596	Colleen Hoover
48579625	Stacey Ryan
51815921	Tyler Hoover
55839904	Harry Abioye
68775762	Mary Watson
74185296	Gerard Way
75072060	William Gates
78927486	Ada Campbell
79461357	Thomas Shelby
79548654	Jonathan Doe
96136516	Young Woo
97769483	Seung Park

---

(2)

Description of the query: Show all users' ID, full name, and country that are not in the USA.

SQL Statement:

```
/* 1.2 : ALL User not USA  */
SELECT ID, CONCAT(FName, " ", Lname) AS 'Name', Country
FROM User
WHERE Country != 'USA'
ORDER BY Country ASC;
```

The results of the query: 10 row(s) returned

	ID	Name	Country
▶	54089841	Jin Xi	China
	78973866	Mark LeMont	France
	66725966	Hans Martin	Germany
	85579665	William McCrory	Ireland
	15802550	Freddie Fontana	Italy
	88463260	Andreas Cepelluti	Italy
	90686089	Frank Kowalski	Poland
	58662757	Sergey Sidorov	Russia
	56466916	Ethan Tan	Singapore
	58410496	Brook Tingtong	Thailand

(3)

Description of the query: List the name and year of all content from the United States.

SQL Statement

```
/* 1.3 : ALL Content USA  */
SELECT CONCAT(Title, " (", yearOfPublication, ")") AS Content
FROM Content
WHERE CountryRelease = 'USA'
ORDER BY yearOfPublication DESC;
```

The results of the query: 13 row(s) returned

Content
The Sea Beast (2022)
All Quiet on the Western Front (2022)
Resident Evil (2022)
Midsommar (2019)
The Boys (2019)
Manifest (2018)
The other side of the wind (2018)
The Mummy (2017)
Stranger Things (2016)
Penguin of Madagascar: The movie (2014)
Interstellar (2014)
Ninja assassin (2009)
The Da Vinci Code (2006)

---

(4)

Description of the query: List the name and year of all Japanese content.

SQL Statement:

```
/* 1.4 : ALL Content Japan  */
SELECT CONCAT(Title, " (", yearOfPublication, ")") AS Content
FROM Content
WHERE CountryRelease = 'Japan'
ORDER BY yearOfPublication DESC;
```

The results of the query: 2 row(s) returned

Content
Spy x Family (2022)
Demon Slayer (2016)

(5)

Description of the query: List the names and years of all Thai content.

SQL Statement:

```
/* 1.5 : ALL Content Thailand  */
SELECT CONCAT(Title, " (", yearOfPublication, ")") AS Content
FROM Content
WHERE CountryRelease = 'Thailand'
ORDER BY yearOfPublication DESC;
```

The results of the query: 2 row(s) returned

Content
The medium (2021)
Dangerous Boys (2014)

(6)

Description of the query: Rank the top 5 regions with the most content.

SQL Statement:

```
/* 1.6 : TOP 5 Regions with most Content  */
SELECT CountryRelease as Country, COUNT(Title) as 'Content Count'
FROM Content
GROUP BY Country
ORDER BY COUNT(Title) DESC
LIMIT 5;
```

The results of the query: 5 row(s) returned

Country	Content Count
USA	13
China	3
Japan	2
Thailand	2
Taiwan	1

(7)

Description of the query: Rank the top 5 regions with most users.

SQL Statement:

```
SELECT Country, COUNT(ID) as Users
FROM User
GROUP BY Country
ORDER BY Users DESC
LIMIT 5;
```

The results of the query: 5 row(s) returned

Country	Users
USA	20
Italy	2
China	1
Singapore	1
Thailand	1

---

(8)

Description of the query: Rank the top 5 regions with the least content.

SQL Statement:

```
/* 1.8 : TOP 5 Regions with least Content  */
SELECT CountryRelease as Country, COUNT(Title) as 'Content Count'
FROM Content
GROUP BY Country
ORDER BY COUNT(Title) ASC
LIMIT 5;
```

The results of the query: 5 row(s) returned

Country	Content Count
Laos	1
Hong Kong	1
Taiwan	1
Korean	1
Malaysia	1

---

(9)

Description of the query: Rank the top 5 regions with the fewest users.

SQL Statement:

```
/* 1.9 : TOP 5 Regions with least User  */
SELECT Country, COUNT(ID) as Users
FROM User
GROUP BY Country
ORDER BY Users ASC
LIMIT 5;
```

The results of the query: 5 row(s) returned

Country	Users
Germany	1
Poland	1
China	1
Singapore	1
Thailand	1

---

(10)

Description of the query: Rank the top 10 most-represented ages of users.

SQL Statement:

```
/* 1.10 : TOP 10 most represented Age of User  */
Select (YEAR(curdate()) - year(DateOfBirth)) AS Age, COUNT(ID) AS 'Users'
FROM User
GROUP BY Age
ORDER BY Users DESC
LIMIT 10;
```

The results of the query: 10 row(s) returned

Age	Users
69	3
25	3
30	3
35	3
22	3
38	2
23	2
19	2
34	2
56	1

(11)

Description of the query: Show all of the user's information, including ID, email, phone number, first name, middle name, last name, profile name, picture URL, address, country, birth date, and payment number.

SQL Statement:

```
/* 1.1 : User ALL Info  */
SELECT ID, Email, PhoneNo, FName, MName, LName, PName, PicURL, Address, Country, DateOfBirth, PaymentNo
FROM User
ORDER BY ID ASC;
```

The results of the query: 30 row(s) returned

ID	Email	PhoneNo	FName	MName	LName	PName	PicURL	Address	Country	DateOfBirth	Payment
12312312	abrown@gmail.com	1-123-789-1155	Adam	Marcus	Brown	Adam	https://netflix.profile.picture=01.com	7819 Garden Ln Justice, Illinois(IL), 60458	USA	1984-12-12	6047345
12345678	mikes@gmail.com	1-212-456-7890	Mike	Robert	Smith	Mike	https://netflix.profile.picture=01.com	2494 Moore Way La Vergne, Tennessee(TN), 3...	USA	1984-05-29	1367350
15802550	fred.fon@gmail.com	66-987-654-1251	Freddie	NULL	Fontana	Fred	https://netflix.profile.picture=01.com	Via Firenze 82	Italy	1953-06-17	6374426
29913417	p.taylor@gmail.com	1-874-878-987	Peter	NULL	Taylor	Peter	https://netflix.profile.picture=01.com	283 Rose Street	USA	1999-02-17	6960673
33266262	richardmorgan@gmail.com	1-333-351-5566	Richard	NULL	Morgan	Rick	https://netflix.profile.picture=01.com	4147 Monroe Avenue	USA	1997-07-07	8293521
34854761	tylerdelaney@gmail.com	1-789-151-1652	Tyler	NULL	Delaney	Ei_Ei	https://netflix.profile.picture=01.com	314 Hillview Dr Nazareth, Pennsylvania(PA), 18...	USA	2003-03-03	8945457
36915248	elonm@gmail.com	1-412-456-6591	Elon	Reeve	Musk	Elon	https://netflix.profile.picture=01.com	412 Rr 2 Pearson, Georgia(GA), 31642	USA	1997-04-24	8445297
41131929	henrypeterson@gmail.com	1-123-321-9999	Henry	NULL	Peterson	Henry	https://netflix.profile.picture=01.com	3826 Junior Avenue	USA	1966-10-10	8880203
42801442	sean.p@gmail.com	1-328-351-3214	Sean	NULL	Parker	Sean_goi	https://netflix.profile.picture=01.com	1430 Timbercrest Road	USA	1997-07-07	2961855
44947596	collyhoover@gmail.com	1-123-321-1717	Colleen	NULL	Hoover	Colly	https://netflix.profile.picture=01.com	4473 Golden Street	USA	1979-12-11	8341842
48579625	staceyryan@gmail.com	1-891-457-1478	Stacey	NULL	Ryan	Stacey	https://netflix.profile.picture=01.com	99 Arcadia Rd Hope Valley, Rhode Island(RI), 0...	USA	1992-12-03	5417895
51815921	tyler.h@gmail.com	1-333-351-1212	Tyler	NULL	Hoover	Tyler_T...	https://netflix.profile.picture=01.com	3701 Barnes Avenue	USA	1987-08-17	1105260
54089841	xjp@qq.com	86-194-123-1234	Jin	Ping	Xi	Jin Ping	https://netflix.profile.picture=01.com	174 Chang an Avenue, Xicheng District, Beijing	China	1953-06-15	1367357

ID	Email	PhoneNo	FName	MName	LName	PName	PicURL	Address	Country	DateOfBirth	Paymentt
55839904	harryabioye@gmail.com	1-123-321-1111	Harry	NULL	Abioye	FlowerFul	https://netflix.profile.picture=01.com	4184 Lowes Alley	USA	1976-05-09	1129374
56466916	ethantan@gmail.com	66-9854-5254	Ethan	Jun Jie	Tan	Ethan	https://netflix.profile.picture=01.com	Blk 190 Bt Batok West Ave 6 ,13-33	Singapore	2000-04-28	7061658
58410496	brooks@gmail.com	1-925-732-958	Brook	NULL	Tingtong	Brook	https://netflix.profile.picture=01.com	19/4 Gp 7 Highway Sai 345 Klong Koi Pak Kret	Thailand	1987-06-26	1126850
58662757	serg.s@gmail.com	1-555-988-954	Sergey	Ibrahi...	Sidorov	Sergey	https://netflix.profile.picture=01.com	K.myagotina, bld. 111, appt. 14	Russia	1987-06-25	4576509
66725966	hansmartin@gmail.com	1-585-988-653	Hans	NULL	Martin	Hans	://netflix.profile.picture=01.com	Bayreuther Strasse 80	Germany	1953-06-16	2863605
68775762	mjw@gmail.com	1-123-555-1717	Mary	Jane	Watson	MJ	https://netflix.profile.picture=01.com	2782 Romines Mill Road	USA	2003-03-14	1000709
74185296	gway@gmail.com	1-398-456-1234	Gerard	Arthur	Way	Gerard	https://netflix.profile.picture=03.com	3014 Vance Ave Texas City, Texas(TX), 77590	USA	1988-06-13	1548242
75072060	billgates@gmail.com	1-123-321-9797	William	Henry	Gates	Bill	https://netflix.profile.picture=01.com	1083 Denver Avenue	USA	1955-10-28	1073405
78927486	adacb@gmail.com	1-447-554-4457	Ada	Charlo...	Campbell	Ada	https://netflix.profile.picture=01.com	10 N 2nd St Woodsboro, Maryland(MD), 21798	USA	2002-04-20	1861704
78973866	marklemont@hotmail.com	1-521-895-854	Mark	NULL	LeMont	Mark	https://netflix.profile.picture=01.com	81 Rue de Verdun	France	1999-02-16	1228509
79461357	tommyshelby@gmail.com	1-175-451-1478	Thomas	NULL	Shelby	Tommy	https://netflix.profile.picture=02.com	1206 1st St SW Cedar Rapids, Iowa(IA), 52404	USA	1992-05-14	5258460
79548654	johndoe@gmail.com	1-348-451-7954	Jonathan	Damian	Doe	John	https://netflix.profile.picture=04.com	619 E Scenic St Apache Junction, Arizona(AZ), ...	USA	2004-04-04	9237241
85579665	wmc@gmail.com	1-969-666-536	William	NULL	McCrory	Willy	https://netflix.profile.picture=01.com	Mill st Baltinglass	Ireland	2000-03-18	7179323
88463260	andreas.c@gmail.com	89-254-8889	Andreas	NULL	Cepelluti	Andy	https://netflix.profile.picture=01.com	Via Goffredo Mameli 83	Italy	1988-04-03	8993393
90686089	frankkow@gmail.com	1-623-987-654	Frank	NULL	Kowalski	Frank	https://netflix.profile.picture=01.com	ul. Legnicka 136	Poland	2000-03-17	4739674
96136516	wyw@gmail.com	82-12-1234-1234	Young	Wei	Woo	Young_...	https://netflix.profile.picture=01.com	2105 Regency Dr Flower Mound, Texas(TX), 75...	USA	1992-04-23	2514879
97769483	ethanpark@gmail.com	1-111-351-1212	Seung	Won	Park	Ethan	https://netflix.profile.picture=01.com	1047 Cody Ridge Road	USA	1990-05-06	2891001

(12)

Description of the query: List all director names and their content IDs.

SQL Statement:

```
/* 1.2 : ALL Director  */
SELECT DIRECTOR,ContentID
FROM DIRECTOR
ORDER BY DIRECTOR ASC;
```

The results of the query: 10 row(s) returned

DIRECTOR	ContentID
Álex Pina	KOP@548DD
Edward Berger	KOE@H54BI
Jeff Rake	ACT@456SS
Joe Mantello	OIF@577SD
Mtjj Mutou	SOA@SS225
Otto Bathurst	OIF@548SD
Poj Arnon	YAO@FF334
Tatsuya Endo	AD@15FO88
The Duffer Brothers	AKD@621S8
Yoo In-shik	AKD@58F21

(13)

Description of the query: Display the IDs, names, and ages of all users.

SQL Statement:

```
/* 1.3 : ALL User by age */
SELECT ID, CONCAT(FName, " ", Lname) AS "Name", YEAR(curdate()) - YEAR(DateOfBirth) AS Age
FROM User
ORDER BY Age ASC;
```

The results of the query: 30 row(s) returned

ID	Name	Age
79548654	Jonathan Doe	18
34854761	Tyler Delaney	19
68775762	Mary Watson	19
78927486	Ada Campbell	20
56466916	Ethan Tan	22
85579665	William McCrory	22
90686089	Frank Kowalski	22
29913417	Peter Taylor	23
78973866	Mark LeMont	23
33266262	Richard Morgan	25
36915248	Elon Musk	25
42801442	Sean Parker	25
48579625	Stacey Ryan	30
79461357	Thomas Shelby	30
96136516	Young Woo	30
97769483	Seung Park	32
74185296	Gerard Way	34
88463260	Andreas Cepelluti	34
51815921	Tyler Hoover	35
58410496	Brook Tingtong	35
58662757	Sergey Sidorov	35
12312312	Adam Brown	38
12345678	Mike Smith	38
44947596	Colleen Hoover	43
55839904	Harry Abioye	46
41131929	Henry Peterson	56
75072060	William Gates	67
15802550	Freddie Fontana	69
54089841	Jin Xi	69
66725966	Hans Martin	69

(14)

Description of the query: Show all contact details, including ID, name, phone number, email, address, and country, of each user.

SQL Statement:

```
/* 1.4 : All User Contact */
SELECT ID, CONCAT(FName, " ", Lname) AS "Name", PhoneNo, Email, Address, Country
FROM User
ORDER BY ID ASC;
```

The results of the query: 30 row(s) returned

ID	Name	PhoneNo	Email	Address	Countr
12312312	Adam Brown	1-123-789-1155	abrown@gmail.com	7819 Garden Ln Justice, Illinois(IL), 60458	USA
12345678	Mike Smith	1-212-456-7890	mikes@gmail.com	2494 Moore Way La Vergne, Tennessee(TN), 3...	USA
15802550	Freddie Fontana	66-987-654-1251	fred.fon@gmail.com	Via Firenze 82	Italy
29913417	Peter Taylor	1-874-878-987	p.taylor@gmail.com	283 Rose Street	USA
33266262	Richard Morgan	1-333-351-5566	richardmorgan@gmail.com	4147 Monroe Avenue	USA
34854761	Tyler Delaney	1-789-151-1652	tylerdelaney@gmail.com	314 Hillview Dr Nazareth, Pennsylvania(PA), 18...	USA
36915248	Elon Musk	1-412-456-6591	elonm@gmail.com	412 Rr 2 Pearson, Georgia(GA), 31642	USA
41131929	Henry Peterson	1-123-321-9999	henrypeterson@gmail.com	3826 Junior Avenue	USA
42801442	Sean Parker	1-328-351-3214	sean.p@gmail.com	1430 Timbercrest Road	USA
44947596	Colleen Hoover	1-123-321-1717	collyhoover@gmail.com	4473 Golden Street	USA
48579625	Stacey Ryan	1-891-457-1478	staceyryan@gmail.com	99 Arcadia Rd Hope Valley, Rhode Island(RI), 0...	USA
51815921	Tyler Hoover	1-333-351-1212	tyler.h@gmail.com	3701 Barnes Avenue	USA
54089841	Jin Xi	86-194-123-1234	xjp@qq.com	174 Chang an Avenue, Xicheng District, Beijing	China
55839904	Harry Abioye	1-123-321-1111	harryabioye@gmail.com	4184 Lowes Alley	USA
56466916	Ethan Tan	66-9854-5254	ethantan@gmail.com	Blk 190 Bt Batok West Ave 6 ,13-33	Singapore
58410496	Brook Tingtong	1-925-732-958	brooks@gmail.com	19/4 Gp 7 Highway Sai 345 Klong Koi Pak Kret	Thailand
58662757	Sergey Sidorov	1-555-988-954	serg.s@gmail.com	K.myagotina, bld. 111, appt. 14	Russia
66725966	Hans Martin	1-585-988-653	hansmartin@gmail.com	Bayreuther Strasse 80	Germany
68775762	Mary Watson	1-123-555-1717	mjw@gmail.com	2782 Romines Mill Road	USA
74185296	Gerard Way	1-398-456-1234	gway@gmail.com	3014 Vance Ave Texas City, Texas(TX), 77590	USA
75072060	William Gates	1-123-321-9797	billgates@gmail.com	1083 Denver Avenue	USA
78927486	Ada Campbell	1-447-554-4457	adacb@gmail.com	10 N 2nd St Woodsboro, Maryland(MD), 21798	USA
78973866	Mark LeMont	1-521-895-854	marklemont@hotmail.com	81 Rue de Verdun	France
79461357	Thomas Shelby	1-175-451-1478	tommyshelby@gmail.com	1206 1st St SW Cedar Rapids, Iowa(IA), 52404	USA
79548654	Jonathan Doe	1-348-451-7954	johndoe@gmail.com	619 E Scenic St Apache Junction, Arizona(AZ), ...	USA
85579665	William McCrory	1-969-666-536	wmc@gmail.com	Mill st Baltinglass	Ireland
88463260	Andreas Cepelluti	89-254-8889	andreas.c@gmail.com	Via Goffredo Mameli 83	Italy
90686089	Frank Kowalski	1-623-987-654	frankkow@gmail.com	ul. Legnicka 136	Poland
96136516	Young Woo	82-12-1234-1234	wyw@gmail.com	2105 Regency Dr Flower Mound, Texas(TX), 75...	USA
97769483	Seung Park	1-111-351-1212	ethanpark@gmail.com	1047 Cody Ridge Road	USA

(15)

Description of the query: List the payer's name and their payment number.

SQL Statement:

```
/* 1.5 : ALL User Payment */
SELECT No, CONCAT(FName, " ", Lname) AS "Name"
FROM Payment
ORDER BY No ASC;
```

The results of the query: 30 row(s) returned

No	Name
1000709	Odysseus Coke
1073405	Misaki Ayers
1105260	Yelena Penn
1126850	Ildi Németh
1129374	Ruth Moore
1228509	Vishnu Maguire
1367350	Mike Smith
1367357	Anthony Hofmeister
1548242	Gerard Way
1861704	Ada Campbell
2514879	Young Woo
2863605	Neilos Abrahams
2891001	Dorota Waterman
2961855	Marie Brennan
4576509	Akua Abeln
4739674	Bogdan Costantini
5258460	Thomas Shelby
5417895	Stacey Ryan
6047345	Adam Brown
6374426	Pravin Romijnsen
6960673	Mandawuy Tse
7061658	Jovan Matsubara
7179323	Madhukar Houston
8293521	Grosvenor Naaji
8341842	Remus Honeycutt
8445297	Elon Musk
8880203	Hariwald Lachapelle
8945457	Tyler Delaney
8993393	Roelof Moretti
9237241	Jonathan Doe

(16)

Description of the query: Show all content details of ID, URL, country, title, rating, last update, year of publication, description, and status.

SQL Statement:

```
/* 1.6 : ALL Content */
SELECT ID,TrailerURL,CountryRelease,Title,rating,LastUpDate,yearOfPublication,Description,Status
FROM Content
WHERE Status = "1"
ORDER BY ID ASC;
```

The results of the query: 30 row(s) returned

ID	TrailerURL	CountryRelease	Title	rating	LastUpDate	yearOfPublication	Description	Status
ACC@4L5B2	https://www.netflix.com/browse/genre/34399?...	Laos	The long walk	16+	2019-09-04 00:00:00	2019	In a rural Laotian village, an old farmer haunted...	1
ACT@456SS	https://www.netflix.com/search?q=Manifest&jb...	USA	Manifest	13+	2022-01-21 00:00:00	2018	Flight 828 arrives in New York with passengers ...	1
AD@15FO88	https://www.netflix.com/search?q=spy&jbv=8...	Japan	Spy x Family	13+	2022-11-05 00:00:00	2022	Tasked with getting close to a high-ranking politi...	1
AKD@58F21	https://www.netflix.com/search?q=Extraordina...	Korean	Extraordinary Attorney Woo	16+	2022-10-13 00:00:00	2022	On her first day at a new job, Woo Young-woo ...	1
AKD@621S8	https://www.netflix.com/search?q=Stranger%...	USA	Stranger Things	16+	2022-09-23 00:00:00	2016	Nancy has sobering visions, and El passes an im...	1
BB@ILUQ12	https://www.netflix.com/browse?jbv=80133543	China	The Great Wall	13+	2016-12-06 00:00:00	2016	Searching for gunpowder in Song dynasty Chin...	1
CSV@AAD55	https://www.netflix.com/browse?jbv=70035186	USA	The Da Vinci Code	13+	2006-05-17 00:00:00	2006	A harvard professor must untangle a web of de...	1
DAB@112AD	https://www.netflix.com/search?q=penguin&jb...	USA	Penguin of Madagascar: The movie	7+	2014-11-25 00:00:00	2014	Elite penguin spies Skipper, Kowalski, Rico and P...	1
DIY@61A4K	https://www.netflix.com/search?q=the%20me...	UK	No one gets out alive	16+	2021-09-29 00:00:00	2021	Desperate and without documentation, a woma...	1
FAT@HAI78	https://www.netflix.com/search?q=penguin&jb...	USA	The Sea Beast	7+	2022-06-24 00:00:00	2022	When a young girl stows away on the ship of a l...	1
GAL@LA5GD	https://www.netflix.com/browse?jbv=81071055	USA	Midsommar	18+	2019-07-03 00:00:00	2019	A grieving woman accompanies her boyfriend a...	1
IQE@OPA35	https://www.netflix.com/search?q=the%20me...	Thailand	The medium	16+	2021-07-11 00:00:00	2021	When a woman displays increasingly disturbing ...	1
JAB@ZD76S	https://www.netflix.com/search?q=the%20me...	Malaysia	Munafik 2	16+	2018-08-30 00:00:00	2018	Haunted by terrifying visions, a muslim healer fi...	1
JAJ@NOV11	https://www.netflix.com/browse?jbv=922448	Hong Kong	Royal Tramp	13+	1992-07-30 00:00:00	1992	Comical storyteller Wai Siu Bo goes from rags to...	1
KAK@445DB	https://www.netflix.com/browse?jbv=70305903	USA	Interstellar	13+	2014-10-26 00:00:00	2014	With humanity teetering on the brink of extincti...	1
KJJ@936SX	https://www.netflix.com/search?q=the%20me...	USA	Ninja assassin	18+	2009-11-25 00:00:00	2009	A former assassin must protect himself and a Eu...	1
KOE@H54BI	https://www.netflix.com/search?q=All%20Quie...	USA	All Quiet on the Western Front	16+	2022-11-11 00:00:00	2022	When 17-year-old Paul joins the Western Front ...	1
KOP@548DD	https://www.netflix.com/search?q=Money%20...	Span	Money Heist	16+	2021-05-05 00:00:00	2017	Hostage negotiator Raquel makes initial contact...	1
MNM@75TYT	https://www.netflix.com/browse?jbv=80161352	USA	The Mummy	16+	2017-05-22 00:00:00	2017	A treasure-hunting soldier reawakens an ancien...	1
MNN@49TYT	https://www.netflix.com/browse?jbv=81622849	China	Love between fairy and devil	13+	2022-08-29 00:00:00	2022	When a low-ranking fairy accidentally resurrect...	1
OIF@548SD	https://www.netflix.com/search?q=Peaky%20...	US	Peaky Blinders	16+	2022-05-13 00:00:00	2013	A brutal, working-class gang, named for the raz...	1
OIF@577SD	https://www.netflix.com/search?q=The%20Bo...	USA	The Boys	16+	2022-11-02 00:00:00	2019	At a birthday party in 1968 New York, a surpris...	1
OUT@888WQ	https://www.netflix.com/browse/genre/34399?...	India	Gangubai Kathiawadi	16+	2022-02-16 00:00:00	2022	Duped and sold to a brothel, a young woman fe...	1
OUY@ASD12	https://www.netflix.com/browse?jbv=81091393	Japan	Demon Slayer	16+	2016-02-15 00:00:00	2016	After a demon attack leaves his family slain and...	1
POP@V33A5	https://www.netflix.com/browse/genre/31574?...	USA	The other side of the wind	16+	2018-08-31 00:00:00	2018	On the last day of his life, a legendary director ...	1
PP@5A33DQ	https://www.netflix.com/search?q=the%20me...	South Korea	All of us are dead	16+	2022-01-28 00:00:00	2022	A high school becomes grouind zero for zombie ...	1
QES@7674B	https://www.netflix.com/search?q=the%20me...	Taiwan	The Bridge Curse	16+	2020-02-27 00:00:00	2020	A group of university students decides to test a...	1
SAS@7A8AS	https://www.netflix.com/search?q=the%20me...	USA	Resident Evil	18+	2022-07-14 00:00:00	2022	Years after viral outbreak caused a global apoc...	1
SOA@SS225	https://www.netflix.com/browse/genre/34399?...	China	The Batman	13+	2019-06-29 00:00:00	2022	When humans destroy his forest habitat, a sha...	1
YAO@FF334	https://www.netflix.com/browse/genre/34399?...	Thailand	Dangerous Boys	13+	2014-12-25 00:00:00	2014	A high school gang leader clashes with his longti...	1

(17)

Description of the query: List all content for non-mature audiences (rating 13+ or below) including ID, title, country, rating, and description.

SQL Statement:

```
/* 1.7 : ALL Content for non mature audiences */
SELECT ID,Title,CountryRelease,rating,Description
FROM Content
WHERE rating != "16+" AND rating != "18+"
ORDER BY rating DESC;
```

The results of the query: 11 row(s) returned

ID	Title	CountryRelease	rating	Description
DAB@112AD	Penguin of Madagascar: The movie	USA	7+	Elite penguin spies Skipper, Kowalski, Rico and P...
FAT@HAI78	The Sea Beast	USA	7+	When a young girl stows away on the ship of a l...
ACT@456SS	Manifest	USA	13+	Flight 828 arrives in New York with passengers ...
AD@15FO88	Spy x Family	Japan	13+	Tasked with getting close to a high-ranking politi...
BB@ILUQ12	The Great Wall	China	13+	Searching for gunpowder in Song dynasty Chin...
CSV@AAD55	The Da Vinci Code	USA	13+	A harvard professor must untangle a web of de...
JAJ@NOV11	Royal Tramp	Hong Kong	13+	Comical storyteller Wai Siu Bo goes from rags to...
KAK@445DB	Interstellar	USA	13+	With humanity teetering on the brink of extincti...
MNN@49TYT	Love between fairy and devil	China	13+	When a low-ranking fairy accidentally resurrect...
SOA@SS225	The Batman	China	13+	When humans destroy his forest habitat, a sha...
YAO@FF334	Dangerous Boys	Thailand	13+	A high school gang leader clashes with his longti...

(18)

Description of the query: Display the content ID and title rank based on the most recent update.

SQL Statement:

```
/* 1.8 : ALL Content since last update */
SELECT ID, Title
FROM Content
ORDER BY YEAR(curdate()) - YEAR(LastUpDate) ASC;
```

The results of the query: 30 row(s) returned

ID	Title
ACT@456SS	Manifest
AD@15FO88	Spy x Family
AKD@58F21	Extraordinary Attorney Woo
AKD@621S8	Stranger Things
FAT@HAI78	The Sea Beast
KOE@H54BI	All Quiet on the Western Front
MNN@49TYT	Love between fairy and devil
OIF@548SD	Peaky Blinders
OIF@577SD	The Boys
OUT@888WQ	Gangubai Kathiawadi
PP@5A33DQ	All of us are dead
SAS@7A8AS	Resident Evil
DIY@61A4K	No one gets out alive
IQE@OPA35	The medium
KOP@548DD	Money Heist
QES@7674B	The Bridge Curse
ACC@4L5B2	The long walk
GAL@LA5GD	Midsommar
SOA@SS225	The Batman
JAB@ZD76S	Munafik 2
POP@V33A5	The other side of the wind
MNM@75TYT	The Mummy
BB@ILUQ12	The Great Wall
OUY@ASD12	Demon Slayer
DAB@112AD	Penguin of Madagascar: The ...
KAK@445DB	Interstellar
YAO@FF334	Dangerous Boys
KJJ@936SX	Ninja assassin
CSV@AAD55	The Da Vinci Code
JAJ@NOV11	Royal Tramp

---

(19)

Description of the query: List all voice actors' names and their content IDs.

SQL Statement:

```
/* 1.9 : ALL Voice Actor */
SELECT VOICEACTOR, ContentID
FROM VOICEACTOR
ORDER BY VOICEACTOR ASC;
```

The results of the query: 31 row(s) returned

VOICEACTOR	ContentID
Aaron Hilmer	KOE@H54BI
Albrecht Schuch	KOE@H54BI
Álvaro Morte	KOP@548DD
Athena Karkanis	ACT@456SS
Atsumi Tanezaki	AD@15FO88
Bhuripat Vejvongsatechavat	YAO@FF334
Brick Patrick	AKD@58F21
Brown	AKD@621S8
Cillian Murphy	OIF@548SD
David Harbour	AKD@621S8
Ezra Weisz	AKD@58F21
Felix Kammerer	KOE@H54BI
Hao Xianghai	SOA@SS225
Helen McCrory	OIF@548SD
Itziar Ituño	KOP@548DD
Josh Dallas	ACT@456SS
Jum Parsons	OIF@577SD
Kittipat Samarntragulchai	YAO@FF334
Kunatip Pinpradub	YAO@FF334
Liu Mingyue	SOA@SS225
Matt Bomer	OIF@577SD
Melissa Roxburgh	ACT@456SS
Millie Bobby	AKD@621S8
Pedro Alonso	KOP@548DD
Sam Neill	OIF@548SD
Saori Hayami	AD@15FO88
Takuya Eguchi	AD@15FO88
Úrsula Corberó	KOP@548DD
Wang Youji	SOA@SS225
Winona Ryder	AKD@621S8
Zachary Quinto	OIF@577SD

(20)

Description of the query: List the names of all actors as well as the ID of the content that was played.

SQL Statement:

```
/* 1.10 : ALL Actor */
SELECT Actor,ContentID
FROM ACTOR
ORDER BY ACTOR ASC;
```

The results of the query: 33 row(s) returned

Actor	ContentID
Aaron Hilmer	KOE@H54BI
Albrecht Schuch	KOE@H54BI
Álvaro Morte	KOP@548DD
Anya Forger	AD@15FO88
Athena Karkanis	ACT@456SS
Bhuripat Vejvongsatechavat	YAO@FF334
Brown	AKD@621S8
Cillian Murphy	OIF@548SD
David Harbour	AKD@621S8
Felix Kammerer	KOE@H54BI
Fengxi	SOA@SS225
Hei	SOA@SS225
Helen McCrory	OIF@548SD
Itziar Ituño	KOP@548DD
Josh Dallas	ACT@456SS
Jum Parsons	OIF@577SD
Kang Ki-young	AKD@58F21
Kang Tae-oh	AKD@58F21
Kittipat Samarntragulchai	YAO@FF334
Kunatip Pinpradub	YAO@FF334
Lold Forger	AD@15FO88
Matt Bomer	OIF@577SD
Melissa Roxburgh	ACT@456SS
Millie Bobby	AKD@621S8
Park Eun-bin	AKD@58F21
Pedro Alonso	KOP@548DD

Roju	SOA@SS225
Sam Neill	OIF@548SD
Úrsula Corberó	KOP@548DD
Winona Ryder	AKD@621S8
Wuxian	SOA@SS225
Yor Forger	AD@15FO88
Zachary Quinto	OIF@577SD

Description, statement and Result of advance queries

---

(1)

Description of the query: All active users who have made payment.

SQL Statement:

```
/* 2.1 : ALL Active User who have made Payment  */
SELECT CONCAT(u.FName, " ", u.Lname) AS 'Name', ID
FROM User u
INNER JOIN Payment p
ON u.PaymentNo = p.No
WHERE u.Fname = p.Fname AND u.Lname = p.LName;
```

The results of the query: 10 row(s) returned

Name	ID
Adam Brown	12312312
Mike Smith	12345678
Tyler Delaney	34854761
Elon Musk	36915248
Stacey Ryan	48579625
Gerard Way	74185296
Ada Campbell	78927486
Thomas Shelby	79461357
Jonathan Doe	79548654
Young Woo	96136516

---

(2)

Description of the query: Content and their genre.

SQL Statement:

```
/* 2.2 : Content and their Genre  */
SELECT c.Title, g.Genres
FROM Genres g
INNER JOIN Content c
ON g.ContentID = c.ID;
```

The results of the query: 10 row(s) returned

Title	Genres
Spy x Family	Drama Anime
Spy x Family	Japanese
Spy x Family	TV Shows Based on Manga
Extraordinary Attorney Woo	Courtroom TV Shows
Extraordinary Attorney Woo	Korean
Extraordinary Attorney Woo	Social Issue TV Dramas
Peaky Blinders	British
Peaky Blinders	Crime TV Shows
Peaky Blinders	LGBTQ Movies
Peaky Blinders	Period Pieces

(3)

Description of the query: Actors in content from the USA.

SQL Statement:

```
/* 2.3 : Actors in Content from USA*/
SELECT Title, Actor
FROM Content c
INNER JOIN Actor a
ON c.ID = a.ContentID
WHERE c.CountryRelease = 'USA';
```

The results of the query: 13 row(s) returned

Title	Actor
Manifest	Athena Karkanis
Manifest	Josh Dallas
Manifest	Melissa Roxburgh
Stranger Things	Brown
Stranger Things	David Harbour
Stranger Things	Millie Bobby
Stranger Things	Winona Ryder
All Quiet on the Western Front	Aaron Hilmer
All Quiet on the Western Front	Albrecht Schuch
All Quiet on the Western Front	Felix Kammerer
The Boys	Jum Parsons
The Boys	Matt Bomer
The Boys	Zachary Quinto

(4)

Description of the query: Actors in content from China.

SQL Statement:

```
/* 2.4 : Actors in Content from CHINA*/
SELECT Title, Actor
FROM Content c
INNER JOIN Actor a
ON c.ID = a.ContentID
WHERE c.CountryRelease = 'CHINA';
```

The results of the query: 4 row(s) returned

Title	Actor
The Batman	Fengxi
The Batman	Hei
The Batman	Roju
The Batman	Wuxian

---

(5)

Description of the query: Actors in content from Japan.

SQL Statement:

```
/* 2.5 : Actors in Content from Japan*/
SELECT Title, Actor
FROM Content c
INNER JOIN Actor a
ON c.ID = a.ContentID
WHERE c.CountryRelease = 'Japan';
```

The results of the query: 3 row(s) returned

Title	Actor
Spy x Family	Anya Forger
Spy x Family	Lold Forger
Spy x Family	Yor Forger

---

(6)

Description of the query: Top 5 most searched for content by USA users.

SQL Statement:

```
/* 2.6 : Top 5 most searched Content by users from USA*/
SELECT Title, COUNT(C.ID) AS Searches
FROM Search s
INNER JOIN User u ON s.UserID = u.ID
INNER JOIN Content c ON s.ContentID = c.ID
WHERE c.CountryRelease = 'USA'
GROUP BY Title
LIMIT 5;
```

The results of the query: 5 row(s) returned

Title	Searches
Manifest	1
Stranger Things	1
The Da Vinci Code	1
Penguin of Madagascar: The movie	1
The Sea Beast	1

---

(7)

Description of the query: Top 5 most searched Content by users from Japan.

SQL Statement:

```
/* 2.7 : Top 5 most searched Content by users from Japan*/
SELECT Title, COUNT(C.ID) AS Searches
FROM Search s
INNER JOIN User u ON s.UserID = u.ID
INNER JOIN Content c ON s.ContentID = c.ID
WHERE c.CountryRelease = 'Japan'
GROUP BY Title
LIMIT 5;
```

The results of the query: 2 row(s) returned

Title	Searches
Spy x Family	1
Demon Slayer	1

---

(8)

Description of the query: Top 5 most searched Content by users from China.

SQL Statement:

```
/* 2.8 : Top 5 most searched Content by users from China
SELECT Title, COUNT(C.ID) AS Searches
FROM Search s
INNER JOIN User u ON s.UserID = u.ID
INNER JOIN Content c ON s.ContentID = c.ID
WHERE c.CountryRelease = 'China'
GROUP BY Title
LIMIT 5;
```

The results of the query: 3 row(s) returned

Title	Searches
The Great Wall	1
Love between fairy and devil	1
The Batman	1

---

(9)

Description of the query: All user reports relating to technical issues.

SQL Statement:

```
/* 2.9 : All user report relating to technical issues*/
SELECT Title, UserInput
FROM Report r
INNER JOIN UserInput ui ON r.reportID = ui.reportID
INNER JOIN Content c ON r.ContentID = c.ID
INNER JOIN ReportType rt ON r.reportID = rt.reportTID
WHERE ReportType = 'Technical'
ORDER BY Title ASC;
```

The results of the query: 4 row(s) returned

Title	UserInput
All Quiet on the Western Front	My Netflix app freezes when I try to watch cont...
Manifest	My Netflix app crashes when I open it.
Peaky Blinders	The video doesnt play, it keeps on spinning...
The Boys	Every time I try to watch "The Matrix" my client ...

(10)

Description of the query: All users report problems with the content.

SQL Statement:

```
/* 2.10 : All user report relating to content*/
SELECT Title, UserInput
FROM Report r
INNER JOIN UserInput ui ON r.reportID = ui.reportID
INNER JOIN Content c ON r.ContentID = c.ID
INNER JOIN ReportType rt ON r.reportID = rt.reportTID
WHERE ReportType = 'Content'
ORDER BY Title ASC;
```

The results of the query: 6 row(s) returned

Title	UserInput
Dangerous Boys	I can barely hear the content I am watching ev...
Extraordinary Attorney Woo	Episodes 5 and 6 of Spy x Family Season 1 are i...
Money Heist	The English subtitles for Spy x Family sometimes...
Spy x Family	The volume of this episode is too loud, much lou...
Stranger Things	The French dub of "Peaky Blinders" occasionally...
The Batman	Season 1 of Breaking Bad is swapped with Seas...

(11)

Description of the query: Actor from each country.

SQL Statement:

```
/* 2.1 :  Actor from each country */
SELECT Actor,CountryRelease
FROM Content c
INNER JOIN Actor a
ON c.ID = a.ContentID
GROUP BY c.CountryRelease
ORDER BY c.CountryRelease ASC;
```

The results of the query: 7 row(s) returned

Actor	CountryRelease
Fengxi	China
Anya Forger	Japan
Kang Ki-young	Korean
Álvaro Morte	Span
Bhuripat Vejvongsatechavat	Thailand
Cillian Murphy	US
Athena Karkanis	USA

---

(12)

Description of the query: Recommend movies by User.

SQL Statement:

```
/* 2.2 : Recommend movies by User  */
SELECT Title, CONCAT(FName, " ", Lname) AS "Name"
FROM Recommend r
INNER JOIN User u
INNER JOIN Content c
ON r.UserID = u.ID AND r.ContentID = c.ID
ORDER BY u.ID ASC;
```

The results of the query: 30 row(s) returned

Title	Name
All Quiet on the Western Front	Adam Brown
The Batman	Mike Smith
The Great Wall	Freddie Fontana
Love between fairy and devil	Peter Taylor
Munafik 2	Richard Morgan
Manifest	Tyler Delaney
Spy x Family	Elon Musk
Ninja assassin	Henry Peterson
The other side of the wind	Sean Parker
The long walk	Colleen Hoover
Peaky Blinders	Stacey Ryan
Resident Evil	Tyler Hoover
Penguin of Madagascar: The ...	Jin Xi
All of us are dead	Harry Abioye
Gangubai Kathiawadi	Ethan Tan
Royal Tramp	Brook Tingtong
Demon Slayer	Sergey Sidorov
The Mummy	Hans Martin
The Da Vinci Code	Mary Watson
Extraordinary Attorney Woo	Gerard Way
The medium	William Gates
Dangerous Boys	Ada Campbell
The Sea Beast	Mark LeMont
The Boys	Thomas Shelby
Money Heist	Jonathan Doe
Midsommar	William McCrory
The Bridge Curse	Andreas Cepelluti
Interstellar	Frank Kowalski
Stranger Things	Young Woo
No one gets out alive	Seung Park

(13)

Description of the query: List of users searching movies.

SQL Statement:

```
/* 2.3 What user search what movies :  */
SELECT USERID, CONCAT(FName, " ", Lname) AS "Name" , Title
FROM Search s
INNER JOIN User u ON u.ID = s.UserID
INNER JOIN Content c ON c.ID = s.ContentID
ORDER BY u.ID ASC;
```

The results of the query: 30 row(s) returned

USERID	Name	Title
12312312	Adam Brown	All Quiet on the Western Front
12345678	Mike Smith	The Batman
15802550	Freddie Fontana	The Great Wall
29913417	Peter Taylor	Love between fairy and devil
33266262	Richard Morgan	Munafik 2
34854761	Tyler Delaney	Manifest
36915248	Elon Musk	Spy x Family
41131929	Henry Peterson	Ninja assassin
42801442	Sean Parker	The other side of the wind
44947596	Colleen Hoover	The long walk
48579625	Stacey Ryan	Peaky Blinders
51815921	Tyler Hoover	Resident Evil
54089841	Jin Xi	Penguin of Madagascar: The ...
55839904	Harry Abioye	All of us are dead
56466916	Ethan Tan	Gangubai Kathiawadi
58410496	Brook Tingtong	Royal Tramp
58662757	Sergey Sidorov	Demon Slayer
66725966	Hans Martin	The Mummy
68775762	Mary Watson	The Da Vinci Code
74185296	Gerard Way	Extraordinary Attorney Woo
75072060	William Gates	The medium
78927486	Ada Campbell	Dangerous Boys
78973866	Mark LeMont	The Sea Beast
79461357	Thomas Shelby	The Boys
79548654	Jonathan Doe	Money Heist
85579665	William McCrory	Midsommar
88463260	Andreas Cepelluti	The Bridge Curse
90686089	Frank Kowalski	Interstellar
96136516	Young Woo	Stranger Things
97769483	Seung Park	No one gets out alive

(14)

Description of the query: Display the sequel to each film.

SQL Statement:

```
/* 2.4 : How many Sequel movies have */
SELECT Title, Sequel
FROM Movies m
INNER JOIN Content c
ON m.ContentID = c.ID
ORDER BY c.Title ASC;
```

The results of the query: 10 row(s) returned

Title	Sequel
All Quiet on the Western Front	1
Dangerous Boys	1
Gangubai Kathiawadi	1
Midsommar	2
Royal Tramp	1
The Batman	2
The Da Vinci Code	2
The Great Wall	1
The long walk	2
The medium	2

(15)

Description of the query: Display the director and the directed film.

SQL Statement:

```
/* 2.5 : Director and Directed movie */
SELECT Director, Title
FROM Director d
INNER JOIN Content c
ON d.ContentID = c.ID
ORDER BY d.Director;
```

The results of the query: 10 row(s) returned

Director	Title
Álex Pina	Money Heist
Edward Berger	All Quiet on the Western Front
Jeff Rake	Manifest
Joe Mantello	The Boys
Mtjj Mutou	The Batman
Otto Bathurst	Peaky Blinders
Poj Arnon	Dangerous Boys
Tatsuya Endo	Spy x Family
The Duffer Brothers	Stranger Things
Yoo In-shik	Extraordinary Attorney Woo

(16)

Description of the query: List all reports.

SQL Statement:

```
/* 2.6 : Reported content by user */
SELECT Title, ReportID, ReportType, CONCAT(FName, " ", Lname) AS "Name"
FROM ReportType t
INNER JOIN Report r ON r.reportID = t.reportTID
INNER JOIN User u ON u.ID = r.UserID
INNER JOIN Content c ON c.ID = r.ContentID
ORDER BY r.reportID ASC;
```

The results of the query: 30 row(s) returned

Title	ReportID	ReportType	Name
The Batman	1002549878	Content	Mike Smith
Spy x Family	1234567890	Content	Elon Musk
Gangubai Kathiawadi	1347052609	Content	Ethan Tan
The Great Wall	1533962400	Content	Freddie Fontana
The Da Vinci Code	2357504075	Content	Mary Watson
The Sea Beast	2576830767	Content	Mark LeMont
The Bridge Curse	2673034339	Content	Andreas Cepelluti
The Mummy	2762159952	Content	Hans Martin
Munafik 2	2877256611	Technical	Richard Morgan
Ninja assassin	3231900785	Technical	Henry Peterson
Royal Tramp	3743616967	Technical	Brook Tingtong
Love between fairy ...	3818244103	Content	Peter Taylor
The medium	4261874482	Technical	William Gates
The long walk	4379995058	Content	Colleen Hoover
Interstellar	4403733900	Technical	Frank Kowalski
The Boys	4785125414	Technical	Thomas Shelby
Dangerous Boys	5005874651	Content	Ada Campbell
Manifest	5487962548	Technical	Tyler Delaney
Extraordinary Attor...	5487965213	Content	Gerard Way
Stranger Things	5698632104	Content	Young Woo
Peaky Blinders	5874136598	Technical	Stacey Ryan
Money Heist	5874963201	Content	Jonathan Doe
No one gets out alive	6597919770	Content	Seung Park
Penguin of Madagas...	6773869983	Content	Jin Xi
Midsommar	7844506944	Technical	William McCrory
Resident Evil	8007571056	Technical	Tyler Hoover
All Quiet on the We...	8457962333	Technical	Adam Brown
All of us are dead	8863766680	Content	Harry Abioye
Demon Slayer	9570892914	Technical	Sergey Sidorov
The other side of th...	9642061174	Content	Sean Parker

(17)

Description of the query: Show report inputs from users.

SQL Statement:

```
/* 2.7 What did user report : */
SELECT r.reportID, Title, UserInput AS "Complain", CONCAT(FName, " ", Lname) AS "Name"
FROM UserInput i
INNER JOIN Report r ON i.reportID = r.reportID
INNER JOIN Content c ON c.ID = r.ContentID
INNER JOIN User u ON u.ID = r.UserID
ORDER BY c.Title ASC;
```

The results of the query: 10 row(s) returned

reportID	Title	Complain	Name
8457962333	All Quiet on the Western Front	My Netflix app freezes when I try to watch cont...	Adam Brown
5005874651	Dangerous Boys	I can barely hear the content I am watching ev...	Ada Campbell
5487965213	Extraordinary Attorney Woo	Episodes 5 and 6 of Spy x Family Season 1 are i...	Gerard Way
5487962548	Manifest	My Netflix app crashes when I open it.	Tyler Delaney
5874963201	Money Heist	The English subtitles for Spy x Family sometimes...	Jonathan Doe
5874136598	Peaky Blinders	The video doesnt play, it keeps on spinning...	Stacey Ryan
1234567890	Spy x Family	The volume of this episode is too loud, much lou...	Elon Musk
5698632104	Stranger Things	The French dub of "Peaky Blinders" occasionally...	Young Woo
1002549878	The Batman	Season 1 of Breaking Bad is swapped with Seas...	Mike Smith
4785125414	The Boys	Every time I try to watch "The Matrix" my client ...	Thomas Shelby

(18)

Description of the query: Show keywords to search for the content title.

SQL Statement:

```
/* 2.8 : Keyword to search for Content title*/
SELECT Keyword, Title
FROM Keyword k
INNER JOIN Content c ON k.ContentID = c.ID
ORDER BY k.Keyword ASC;
```

The results of the query: 10 row(s) returned

Keyword	Title
anya	Spy x Family
family	Spy x Family
family anime	Spy x Family
forger	Spy x Family
loid	Spy x Family
operating	Spy x Family
spy	Spy x Family
telepathy	Spy x Family
Warmth	Spy x Family
yor	Spy x Family

(19)

Description of the query: Show new Arrival with View Count.

SQL Statement:

```
/* 2.9 : New Arrival with count of watched title */
SELECT Title, COUNT(w.ContentID) AS "Count"
FROM NewArrival n
INNER JOIN Content c ON n.ContentID = c.ID
INNER JOIN Watch w ON w.ContentID = c.ID
GROUP BY Title
ORDER BY COUNT(w.ContentID) DESC;
```

The results of the query: 10 row(s) returned

Title	Count
Manifest	3
Spy x Family	3
Extraordinary Attorney Woo	3
Stranger Things	3
All Quiet on the Western Front	3
Money Heist	3
Peaky Blinders	3
The Boys	3
The Batman	3
Dangerous Boys	3

---

(20)

Description of the query: List of all individuals involved in content creation.

SQL Statement:

```
/* 2.10 : ALL people involed in content*/
SELECT Actor, Director, SubEditor, VoiceActor, Title
FROM Content c
INNER JOIN Actor a ON a.ContentID = c.ID
INNER JOIN Director d ON a.ContentID = d.ContentID
INNER JOIN SubEditor s ON a.ContentID = s.ContentID
INNER JOIN VoiceActor v ON a.ContentID = v.ContentID
ORDER BY Title ASC;
```

The results of the query: 104 row(s) returned

Actor	Director	SubEditor	VoiceActor	Title
Aaron Hilmer	Edward Berger	Cole Thomas	Aaron Hilmer	All Quiet on the Western Front
Albrecht Schuch	Edward Berger	Cole Thomas	Aaron Hilmer	All Quiet on the Western Front
Felix Kammerer	Edward Berger	Cole Thomas	Aaron Hilmer	All Quiet on the Western Front
Aaron Hilmer	Edward Berger	Cole Thomas	Albrecht Schuch	All Quiet on the Western Front
Albrecht Schuch	Edward Berger	Cole Thomas	Albrecht Schuch	All Quiet on the Western Front
Felix Kammerer	Edward Berger	Cole Thomas	Albrecht Schuch	All Quiet on the Western Front
Aaron Hilmer	Edward Berger	Cole Thomas	Felix Kammerer	All Quiet on the Western Front
Albrecht Schuch	Edward Berger	Cole Thomas	Felix Kammerer	All Quiet on the Western Front
Felix Kammerer	Edward Berger	Cole Thomas	Felix Kammerer	All Quiet on the Western Front
Bhuripat Vejvongsatechavat	Poj Arnon	Sean Walker	Bhuripat Vejvongsatechavat	Dangerous Boys
Kittipat Samarntragulchai	Poj Arnon	Sean Walker	Bhuripat Vejvongsatechavat	Dangerous Boys
Kunatip Pinpradub	Poj Arnon	Sean Walker	Bhuripat Vejvongsatechavat	Dangerous Boys
Bhuripat Vejvongsatechavat	Poj Arnon	Sean Walker	Kittipat Samarntragulchai	Dangerous Boys
Kittipat Samarntragulchai	Poj Arnon	Sean Walker	Bhuripat Vejvongsatechavat	Dangerous Boys
Kunatip Pinpradub	Poj Arnon	Sean Walker	Bhuripat Vejvongsatechavat	Dangerous Boys
Bhuripat Vejvongsatechavat	Poj Arnon	Sean Walker	Kittipat Samarntragulchai	Dangerous Boys
Kittipat Samarntragulchai	Poj Arnon	Sean Walker	Kittipat Samarntragulchai	Dangerous Boys
Kunatip Pinpradub	Poj Arnon	Sean Walker	Kittipat Samarntragulchai	Dangerous Boys
Bhuripat Vejvongsatechavat	Poj Arnon	Sean Walker	Kunatip Pinpradub	Dangerous Boys
Kittipat Samarntragulchai	Poj Arnon	Sean Walker	Kunatip Pinpradub	Dangerous Boys
Kunatip Pinpradub	Poj Arnon	Sean Walker	Kunatip Pinpradub	Dangerous Boys
Kang Ki-young	Yoo In-shik	Hyun-soo Cho	Brick Patrick	Extraordinary Attorney Woo
Kang Tae-oh	Yoo In-shik	Hyun-soo Cho	Brick Patrick	Extraordinary Attorney Woo
Park Eun-bin	Yoo In-shik	Hyun-soo Cho	Brick Patrick	Extraordinary Attorney Woo
Kang Ki-young	Yoo In-shik	Hyun-soo Cho	Ezra Weisz	Extraordinary Attorney Woo
Kang Tae-oh	Yoo In-shik	Hyun-soo Cho	Ezra Weisz	Extraordinary Attorney Woo
Park Eun-bin	Yoo In-shik	Hyun-soo Cho	Ezra Weisz	Extraordinary Attorney Woo
Athena Karkanis	Jeff Rake	Cole Taylor	Athena Karkanis	Manifest
Josh Dallas	Jeff Rake	Cole Taylor	Athena Karkanis	Manifest
Melissa Roxburgh	Jeff Rake	Cole Taylor	Athena Karkanis	Manifest
Athena Karkanis	Jeff Rake	Cole Taylor	Josh Dallas	Manifest
Josh Dallas	Jeff Rake	Cole Taylor	Josh Dallas	Manifest
Melissa Roxburgh	Jeff Rake	Cole Taylor	Josh Dallas	Manifest
Athena Karkanis	Jeff Rake	Cole Taylor	Melissa Roxburgh	Manifest
Josh Dallas	Jeff Rake	Cole Taylor	Melissa Roxburgh	Manifest
Melissa Roxburgh	Jeff Rake	Cole Taylor	Melissa Roxburgh	Manifest
Álvaro Morte	Álex Pina	Pedro White	Álvaro Morte	Money Heist
Itziar Ituño	Álex Pina	Pedro White	Álvaro Morte	Money Heist
Pedro Alonso	Álex Pina	Pedro White	Álvaro Morte	Money Heist

Úrsula Corberó	Álex Pina	Pedro White	Itziar Ituño	Money Heist
Álvaro Morte	Álex Pina	Pedro White	Pedro Alonso	Money Heist
Itziar Ituño	Álex Pina	Pedro White	Pedro Alonso	Money Heist
Pedro Alonso	Álex Pina	Pedro White	Pedro Alonso	Money Heist
Úrsula Corberó	Álex Pina	Pedro White	Pedro Alonso	Money Heist
Álvaro Morte	Álex Pina	Pedro White	Úrsula Corberó	Money Heist
Itziar Ituño	Álex Pina	Pedro White	Úrsula Corberó	Money Heist
Pedro Alonso	Álex Pina	Pedro White	Úrsula Corberó	Money Heist
Úrsula Corberó	Álex Pina	Pedro White	Úrsula Corberó	Money Heist
Cillian Murphy	Otto Bathurst	Oscar Smith	Cillian Murphy	Peaky Blinders
Helen McCrory	Otto Bathurst	Oscar Smith	Cillian Murphy	Peaky Blinders
Sam Neill	Otto Bathurst	Oscar Smith	Cillian Murphy	Peaky Blinders
Cillian Murphy	Otto Bathurst	Oscar Smith	Helen McCrory	Peaky Blinders
Helen McCrory	Otto Bathurst	Oscar Smith	Sam Neill	Peaky Blinders
Sam Neill	Otto Bathurst	Oscar Smith	Sam Neill	Peaky Blinders
Anya Forger	Tatsuya Endo	Nana Onishi	Atsumi Tanezaki	Spy x Family
Lold Forger	Tatsuya Endo	Nana Onishi	Atsumi Tanezaki	Spy x Family
Yor Forger	Tatsuya Endo	Nana Onishi	Atsumi Tanezaki	Spy x Family
Anya Forger	Tatsuya Endo	Nana Onishi	Saori Hayami	Spy x Family
Lold Forger	Tatsuya Endo	Nana Onishi	Saori Hayami	Spy x Family
Yor Forger	Tatsuya Endo	Nana Onishi	Saori Hayami	Spy x Family
Anya Forger	Tatsuya Endo	Nana Onishi	Takuya Eguchi	Spy x Family
Lold Forger	Tatsuya Endo	Nana Onishi	Takuya Eguchi	Spy x Family
Yor Forger	Tatsuya Endo	Nana Onishi	Takuya Eguchi	Spy x Family
Brown	The Duffer Br...	Zara Kyle	Brown	Stranger Things
David Harbour	The Duffer Br...	Zara Kyle	Brown	Stranger Things
Millie Bobby	The Duffer Br...	Zara Kyle	Millie Bobby	Stranger Things
Winona Ryder	The Duffer Br...	Zara Kyle	Millie Bobby	Stranger Things
Brown	The Duffer Br...	Zara Kyle	Winona Ryder	Stranger Things
David Harbour	The Duffer Br...	Zara Kyle	Winona Ryder	Stranger Things
Millie Bobby	The Duffer Br...	Zara Kyle	Winona Ryder	Stranger Things
Winona Ryder	The Duffer Br...	Zara Kyle	Winona Ryder	Stranger Things
Fengxi	Mtjj Mutou	Warren Owen	Hao Xianghai	The Batman
Hei	Mtjj Mutou	Warren Owen	Hao Xianghai	The Batman
Roju	Mtjj Mutou	Warren Owen	Hao Xianghai	The Batman
Wuxian	Mtjj Mutou	Warren Owen	Hao Xianghai	The Batman
Fengxi	Mtjj Mutou	Warren Owen	Liu Mingyue	The Batman
Hei	Mtjj Mutou	Warren Owen	Liu Mingyue	The Batman
Roju	Mtjj Mutou	Warren Owen	Liu Mingyue	The Batman
Wuxian	Mtjj Mutou	Warren Owen	Wang Youji	The Batman
Jum Parsons	Joe Mantello	Luis Lewis	Jum Parsons	The Boys
Matt Bomer	Joe Mantello	Luis Lewis	Jum Parsons	The Boys
Zachary Quinto	Joe Mantello	Luis Lewis	Jum Parsons	The Boys
Jum Parsons	Joe Mantello	Luis Lewis	Matt Bomer	The Boys
Matt Bomer	Joe Mantello	Luis Lewis	Matt Bomer	The Boys
Zachary Quinto	Joe Mantello	Luis Lewis	Matt Bomer	The Boys
Jum Parsons	Joe Mantello	Luis Lewis	Zachary Quinto	The Boys
Matt Bomer	Joe Mantello	Luis Lewis	Zachary Quinto	The Boys
Zachary Quinto	Joe Mantello	Luis Lewis	Zachary Quinto	The Boys

References

"Business Model of Netflix – StudiousGuy - Marketing." *StudiousGuy*, https://studiousguy.com/business-model-of-netflix/. Accessed 30 August 2022.

Kariuki, Patrick. "How and When Did Netflix Start? A Brief History of the Company." *MakeUseOf*, 7 July 2022, https://www.makeuseof.com/how-when-netflix-start-brief-company-history/. Accessed 30 August 2022.

"Netflix Business Model Canvas [2022 major update]." *InnovationTactics*, 8 June 2019, https://innovationtactics.com/netflix-business-model-canvas/. Accessed 30 August 2022.

Pereira, Daniel. "Netflix Business Model Canvas." *Business Model Analyst*, 19 May 2020, https://businessmodelanalyst.com/netflix-business-model/. Accessed 30 August 2022.

Figure 1: Netflix Logo

"File:Logonetflix.png." *Wikimedia Commons*, https://commons.wikimedia.org/wiki/File:Logonetflix.png. Accessed 6 September 2022.