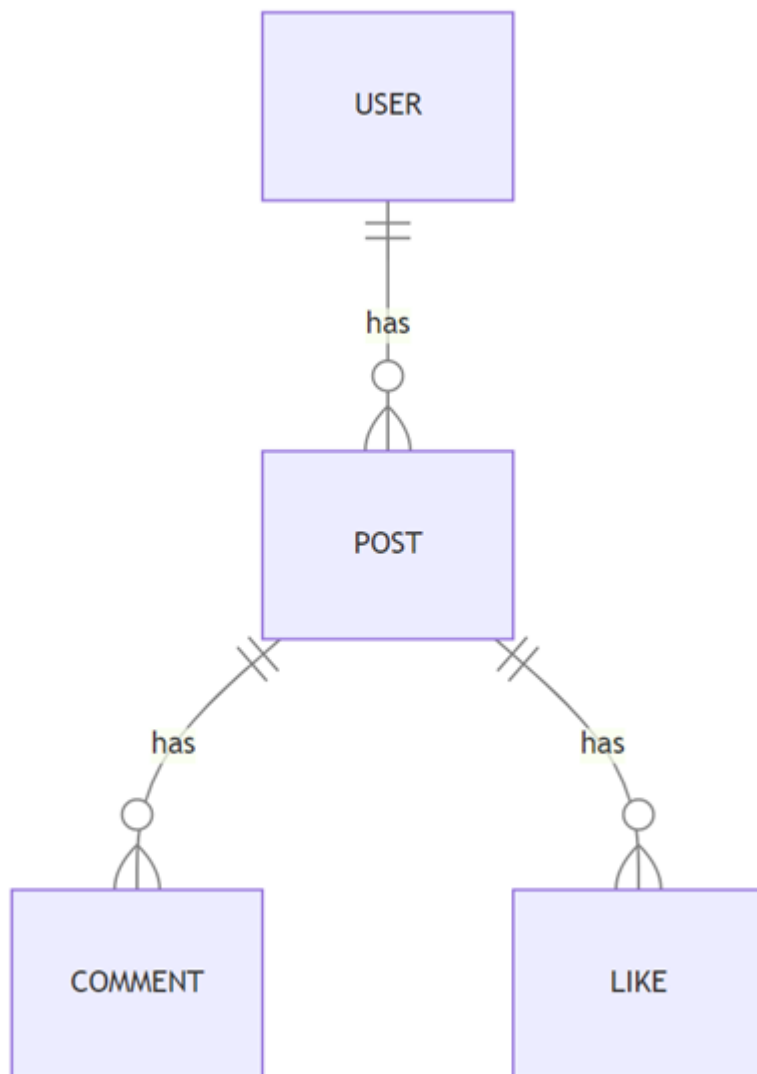


Exercise 1:



Exercise 2

USER Table		
Column Name	Data Type	Constraints
user_id	INT (Primary Key)	
username	VARCHAR(50)	NOT NULL
email	VARCHAR(100)	NOT NULL, UNIQUE
password	VARCHAR(100)	NOT NULL
created_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP
updated_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP

POST Table		
Column Name	Data Type	Constraints
post_id	INT (Primary Key)	
user_id	INT (Foreign Key)	
title	VARCHAR(255)	NOT NULL
description	TEXT	NOT NULL
image_url	VARCHAR(255)	
created_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP
updated_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP

LIKE Table		
Column Name	Data Type	Constraints
like_id	INT (Primary Key)	
user_id	INT (Foreign Key)	
post_id	INT (Foreign Key)	
created_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP

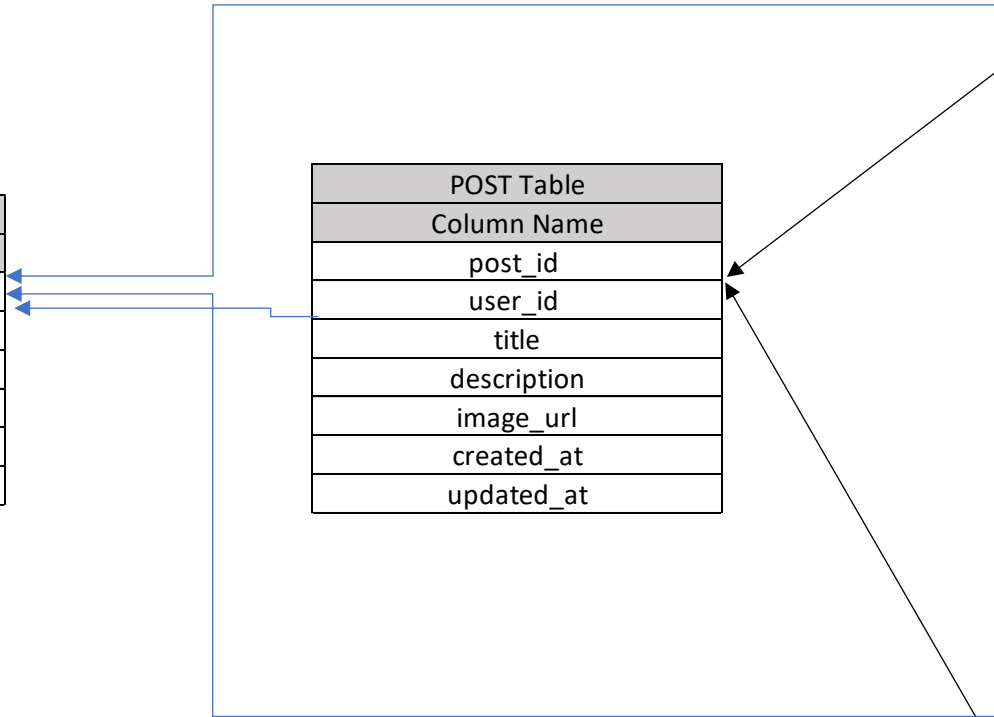
COMMENT Table		
Column Name	Data Type	Constraints
comment_id	INT (Primary Key)	
user_id	INT (Foreign Key)	
post_id	INT (Foreign Key)	
text	TEXT	NOT NULL
created_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP

USER Table	
Column Name	
user_id	
username	
email	
password	
created_at	
updated_at	

POST Table	
Column Name	
post_id	
user_id	
title	
description	
image_url	
created_at	
updated_at	

LIKE Table	
Column Name	
like_id	
user_id	
post_id	
created_at	

COMMENT Table	
Column Name	
comment_id	
user_id	
post_id	
text	
created_at	



```
comment> show databases
admin      40.00 KiB
comment    56.00 KiB
config     72.00 KiB
like       40.00 KiB
local      72.00 KiB
post       56.00 KiB
users      60.00 KiB
comment> use users
switched to db users
users> db.users.find({})
[
  {
    _id: '<user_id>',
    username: 'testName',
    email: 'test123@test.co.nz',
    password: 'test123',
    created_at: ISODate("2023-08-26T03:11:47.507Z"),
    updated_at: ISODate("2023-08-26T03:18:22.109Z")
  }
]
users> use post
switched to db post
post> db.post.find({})
[
  {
    _id: '<post_id>',
    user_id: '<user_id>',
    title: 'First MongoDB Exercies',
    description: 'interesting',
    image_url: 'https://screenshot',
    created_at: ISODate("2023-08-26T03:29:48.028Z"),
    updated_at: ISODate("2023-08-26T03:29:57.141Z")
  }
]
post> use like
switched to db like
like> db.like.find({})
[
  {
    _id: '<like_id>',
    user_id: '<user_id>',
    post_id: '<post_id>',
    created_at: ISODate("2023-08-26T03:33:34.438Z")
  }
]
like> use comment
switched to db comment
comment> db.comment.find({})
[
  {
    _id: '<comment_id>',
    user_id: '<user_id>',
    post_id: '<post_id>',
    text: 'Very helpful',
    created_at: ISODate("2023-08-26T03:36:37.196Z")
  }
]
```

Exercise 3:

```
mysql> DESC user_table
-> ;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
username	varchar(50)	NO		NULL	
email	varchar(100)	NO	UNI	NULL	
password	varchar(100)	NO		NULL	
created_at	timestamp	NO		CURRENT_TIMESTAMP	DEFAULT_GENERATED on update CURRENT_TIMESTAMP
updated_at	timestamp	NO		CURRENT_TIMESTAMP	DEFAULT_GENERATED on update CURRENT_TIMESTAMP

```
6 rows in set (0.00 sec)
```

```
mysql> DESC post_table
->
-> ;
```

Field	Type	Null	Key	Default	Extra
post_id	int	NO	PRI	NULL	
id	int	NO	MUL	NULL	
title	varchar(255)	YES		NULL	
description	text	YES		NULL	
image_url	varchar(255)	YES		NULL	
updated_at	timestamp	NO		CURRENT_TIMESTAMP	DEFAULT_GENERATED on update CURRENT_TIMESTAMP
created_at	timestamp	NO		CURRENT_TIMESTAMP	DEFAULT_GENERATED on update CURRENT_TIMESTAMP

```
7 rows in set (0.00 sec)
```

```
mysql> DESC like_table;
```

Field	Type	Null	Key	Default	Extra
like_id	int	NO	PRI	NULL	
id	int	NO	MUL	NULL	
post_id	int	NO	MUL	NULL	
created_at	timestamp	NO		CURRENT_TIMESTAMP	DEFAULT_GENERATED on update CURRENT_TIMESTAMP

```
4 rows in set (0.00 sec)
```

```
mysql> DESC comment_table;
```

Field	Type	Null	Key	Default	Extra
comment_id	int	NO	PRI	NULL	
id	int	NO	MUL	NULL	
post_id	int	NO	MUL	NULL	
text	text	YES		NULL	
created_at	timestamp	NO		CURRENT_TIMESTAMP	DEFAULT_GENERATED on update CURRENT_TIMESTAMP

```
5 rows in set (0.00 sec)
```