

**LAPORAN PRAKTEK TOPIK KHUSUS
INSTALASI REDIS**



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**TEKNOLOGI INFORMASI
TEKNOLOGI REKAYASA PERANGKAT LUNAK
POLITEKNIK NEGERI PADANG
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LANGKAH KERJA

1.Menginstall

-GO

-MYSQL

-Redis

-Postman

2.Setup Database

The screenshot displays the phpMyAdmin web interface. On the left is a sidebar with a database tree view. The main area shows the 'Table structure' tab for a table named 'users' in the 'simple_mysql_redis' database. The table has four columns: 'id' (int, primary key, auto-increment), 'name' (varchar(100)), 'email' (varchar(100)), and 'age' (int). Below the table structure, there are options to 'Check all', 'With selected', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', and 'Spatial'. There is also a 'Fulltext' option. At the bottom, there is an 'Indexes' section showing a primary index on the 'id' column. The interface includes a top navigation bar with tabs like 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', 'Operations', and 'Triggers'.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int			No	None		AUTO_INCREMENT	Change Drop More
2	name	varchar(100)	utf8mb4_0900_ai_ci		No	None			Change Drop More
3	email	varchar(100)	utf8mb4_0900_ai_ci		No	None			Change Drop More
4	age	int			No	None			Change Drop More

Indexes

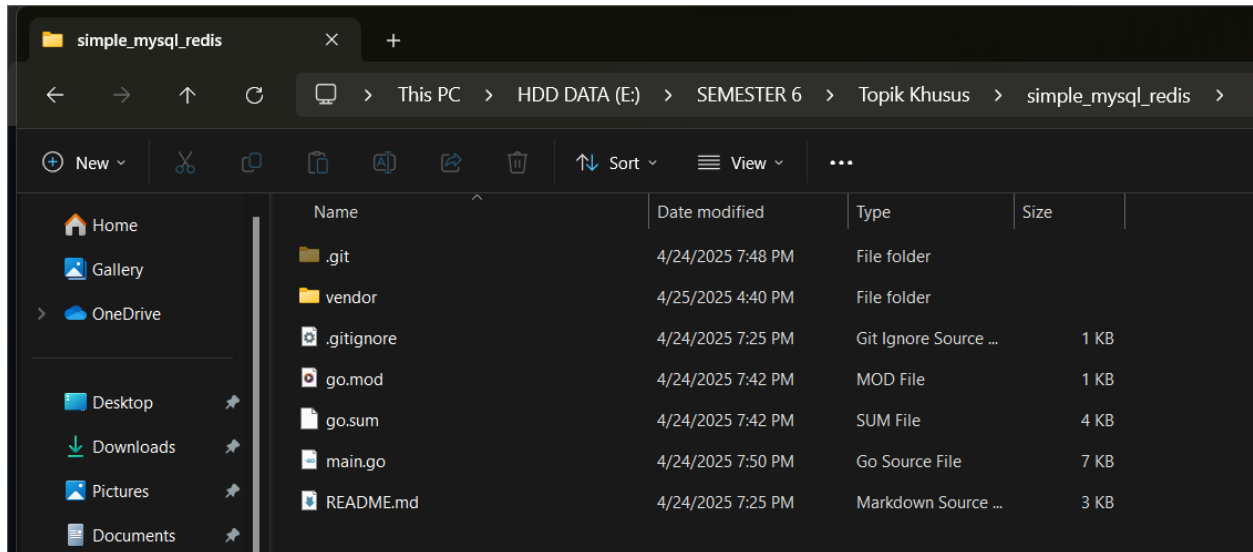
Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id	0	A	No	

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

3.Clone Repository

```
git clone https://github.com/kusnadi8605/simple_mysql_redis.git
```

```
cd simple_mysql_redis
```



4.Konfigurasi Enviroment

Sesuaikan konfigurasi DB dan Redis

5.Install Dependencies

```
go mod init simple_mysql_redis
```

```
go mod tidy
```

```
go mod vendor
```

```
PS E:\SEMESTER 6\Topik Khusus\simple_mysql_redis> go mod init simple_mysql_redis
go: E:\SEMESTER 6\Topik Khusus\simple_mysql_redis\go.mod already exists
PS E:\SEMESTER 6\Topik Khusus\simple_mysql_redis> go mod tidy
PS E:\SEMESTER 6\Topik Khusus\simple_mysql_redis> go mod vendor
```

6.Jalankan Server

```
PS E:\SEMESTER 6\Topik Khusus\simple_mysql_redis> go run main.go
Database connection successful!
Redis connection successful!
Server is running on port 8080
```

[illegible]

7. Api Endpoints dan cURL Commands

1.Create User

```
USER@ASUS MINGW64 ~
$ curl -X POST http://localhost:8089/users -H "Content-Type: application/js
on" -d '{
    "name": "Test",
    "email": "test@example.com",
    "age": 25
}'
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload  Total      Spent    Left     Speed
100  217  100  127  100    90      7060    5003  --:--:-- --:--:-- --:--:-- 12764{"
returnCode":"00","returnDesc":"User created successfully","data":{"id":1,"name":
"Test","email":"test@example.com","age":25}}
```

2. Get All Users

```
curl -X GET http://localhost:8089/users
```

```
USER@ASUS MINGW64 ~
$ curl -X GET http://localhost:8089/users
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total      Spent      Left    Speed
100  111  100    111    0     0   45066      0  --:--:-- --:--:-- --:--:-- 55500{"
returnCode":"00","returnDesc":"Success","data":[{"id":1,"name":"Test","email":"t
est@example.com","age":25}]}
```

3. Get Single User

curl -X GET <http://localhost:8089/users/1>

```
USER@ASUS MINGW64 ~
$ curl -X GET http://localhost:8089/users/1
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100  109  100    109    0     0   21359      0 --:--:-- --:--:-- --:--:-- 21800{"returnCode":"00","returnDesc":"Success","data":{"id":1,"name":"Test","email":"test@example.com","age":25}}
```

4. Update User

curl -X PUT <http://localhost:8089/users/1>

```
USER@ASUS MINGW64 ~
$ curl -X PUT http://localhost:8089/users \
  -H "Content-Type: application/json" \
  -d '{
    "id": 1,
    "name": "Test Updated",
    "email": "Test.updated@example.com",
    "age": 26
  }'
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100  267  100   143  100   124  12000  10406 --:--:-- --:--:-- --:--:-- 24272{"returnCode":"00","returnDesc":"User updated successfully","data":{"id":1,"name":"Test Updated","email":"Test.updated@example.com","age":26}}
```

5. Delete User

curl -X DELETE <http://localhost:8089/users/1>

```
USER@ASUS MINGW64 ~
$ curl -X DELETE http://localhost:8089/users/1
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100   61  100    61    0     0   3178      0 --:--:-- --:--:-- --:--:-- 3210{"returnCode":"00","returnDesc":"User deleted successfully"}
```