

## Laporan Praktikum DB MySql


### 1. Permasalahan 1

#### a. Database lat\_mysql

The screenshot shows a MySQL database management interface. At the top, a SQL query editor contains the command: `1 CREATE DATABASE lat_mysql;`. Below the editor, the interface shows the connection details: **Server: 127.0.0.1 » Database: lat\_mysql**. A yellow warning banner states: **No tables found in database.** Below this, there is a "Create table" section with a "Name:" label and an empty text input field. The "Number of columns:" is set to `4`. A "Go" button is located at the bottom right of the "Create table" section.

#### b. Tabel nama pegawai

The screenshot shows the same MySQL database management interface. The connection details remain: **Server: 127.0.0.1 » Database: lat\_mysql**. A box labeled "Run SQL query/queries on database lat\_mysql:" is visible. Below this, a SQL query editor contains the command to create a table: `1 CREATE TABLE nama_pegawai(  
2 ID int(5) not null primary key,  
3 Nama varchar(20) not null,  
4 Alamat varchar(20) not null,  
5 Gaji int(10) not null);`

	#	Name	Type	Collation	Attributes	Null	Default
<input type="checkbox"/>	1	ID 	int(5)			No	None
<input type="checkbox"/>	2	Nama	varchar(20)	utf8mb4_general_ci		No	None
<input type="checkbox"/>	3	Alamat	varchar(20)	utf8mb4_general_ci		No	None
<input type="checkbox"/>	4	Gaji	int(10)			No	None

c. Isi tabel




























Server: 127.0.0.1 » Database: lat\_mysql » Table: nama\_pegawai

Run SQL query/queries on table lat\_mysql.nama\_pegawai:

```

1 INSERT INTO nama_pegawai VALUES (100, 'Arif', 'Surabaya', 10000),
(101, 'Andi', 'Jakarta', 14000), (102, 'Burhan', 'Malang', 12000),
(103, 'Fikri', 'Madiun', 15000), (104, 'Fariz', 'Malang', 17000),
(105, 'Sigit', 'Surabaya', 20000), (106, 'Ifan', 'Kediri', 16000),
(107, 'Hanif', 'Yogyakarta', 12000), (108, 'Zakiuddin', 'Surabaya',
21000);

```

	ID	Nama	Alamat	Gaji
<input type="checkbox"/>  Edit  Copy  Delete	100	Arif	Surabaya	10000
<input type="checkbox"/>  Edit  Copy  Delete	101	Andi	Jakarta	14000
<input type="checkbox"/>  Edit  Copy  Delete	102	Burhan	Malang	12000
<input type="checkbox"/>  Edit  Copy  Delete	103	Fikri	Madiun	15000
<input type="checkbox"/>  Edit  Copy  Delete	104	Fariz	Malang	17000
<input type="checkbox"/>  Edit  Copy  Delete	105	Sigit	Surabaya	20000
<input type="checkbox"/>  Edit  Copy  Delete	106	Ifan	Kediri	16000
<input type="checkbox"/>  Edit  Copy  Delete	107	Hanif	Yogyakarta	12000
<input type="checkbox"/>  Edit  Copy  Delete	108	Zakiuddin	Surabaya	21000

d. Hapus ID 100

Server: 127.0.0.1 » Database: lat\_mysql » Table: nama\_pegawai

Run SQL query/queries on table lat\_mysql.nama\_pegawai: ?

```
1 DELETE FROM nama_pegawai WHERE ID=100;
```

























				ID	Nama	Alamat	Gaji
<input type="checkbox"/>	Edit	Copy	Delete	101	Andi	Jakarta	14000
<input type="checkbox"/>	Edit	Copy	Delete	102	Burhan	Malang	12000
<input type="checkbox"/>	Edit	Copy	Delete	103	Fikri	Madiun	15000
<input type="checkbox"/>	Edit	Copy	Delete	104	Fariz	Malang	17000
<input type="checkbox"/>	Edit	Copy	Delete	105	Sigit	Surabaya	20000
<input type="checkbox"/>	Edit	Copy	Delete	106	Ifan	Kediri	16000
<input type="checkbox"/>	Edit	Copy	Delete	107	Hanif	Yogyakarta	12000
<input type="checkbox"/>	Edit	Copy	Delete	108	Zakiuddin	Surabaya	21000

e. Update data 101 dan 102

Server: 127.0.0.1 » Database: lat\_mysql » Table: nama\_pegawai















Run SQL query/queries on table lat\_mysql.nama\_pegawai: ?

```
1 UPDATE nama_pegawai SET Nama='Naila', Alamat='Surabaya', Gaji=10000
  WHERE ID=101;
2 UPDATE nama_pegawai SET Nama='Rafi', Alamat='Semarang', Gaji=14000
  WHERE ID=102;
```

				ID	Nama	Alamat	Gaji
<input type="checkbox"/>	 Edit	 Copy	 Delete	101	Naila	Surabaya	10000
<input type="checkbox"/>	 Edit	 Copy	 Delete	102	Rafi	Semarang	14000
<input type="checkbox"/>	 Edit	 Copy	 Delete	103	Fikri	Madiun	15000
<input type="checkbox"/>	 Edit	 Copy	 Delete	104	Fariz	Malang	17000
<input type="checkbox"/>	 Edit	 Copy	 Delete	105	Sigit	Surabaya	20000
<input type="checkbox"/>	 Edit	 Copy	 Delete	106	Ifan	Kediri	16000
<input type="checkbox"/>	 Edit	 Copy	 Delete	107	Hanif	Yogyakarta	12000
<input type="checkbox"/>	 Edit	 Copy	 Delete	108	Zakiuddin	Surabaya	21000

























- f. Perintah-perintah SQL untuk menampilkan:
- Seluruh isi tabel pegawai

```
1 SELECT * FROM nama_pegawai;
```

<div><div><div></div><div></div><div></div></div></div>				ID	Nama	Alamat	Gaji
<input type="checkbox"/>	 Edit	 Copy	 Delete	101	Naila	Surabaya	10000
<input type="checkbox"/>	 Edit	 Copy	 Delete	102	Rafi	Semarang	14000
<input type="checkbox"/>	 Edit	 Copy	 Delete	103	Fikri	Madiun	15000
<input type="checkbox"/>	 Edit	 Copy	 Delete	104	Fariz	Malang	17000
<input type="checkbox"/>	 Edit	 Copy	 Delete	105	Sigit	Surabaya	20000
<input type="checkbox"/>	 Edit	 Copy	 Delete	106	Ifan	Kediri	16000
<input type="checkbox"/>	 Edit	 Copy	 Delete	107	Hanif	Yogyakarta	12000
<input type="checkbox"/>	 Edit	 Copy	 Delete	108	Zakiuddin	Surabaya	21000

- Kolom nama dan gaji dari tabel pegawai

```
1 SELECT Nama, Gaji FROM nama_pegawai;
```

<div>← T →</div>				Nama	Gaji
<input type="checkbox"/>	 Edit	 Copy	 Delete	Naila	10000
<input type="checkbox"/>	 Edit	 Copy	 Delete	Rafi	14000
<input type="checkbox"/>	 Edit	 Copy	 Delete	Fikri	15000
<input type="checkbox"/>	 Edit	 Copy	 Delete	Fariz	17000
<input type="checkbox"/>	 Edit	 Copy	 Delete	Sigit	20000
<input type="checkbox"/>	 Edit	 Copy	 Delete	Ifan	16000
<input type="checkbox"/>	 Edit	 Copy	 Delete	Hanif	12000
<input type="checkbox"/>	 Edit	 Copy	 Delete	Zakiuddin	21000

iii. Kolom nama dan alamat yang mempunyai nama berawalan F

```
1 SELECT Nama, Alamat FROM nama_pegawai WHERE Nama LIKE 'F%';
```

				Nama	Alamat
<input type="checkbox"/>	Edit	Copy	Delete	Fikri	Madiun
<input type="checkbox"/>	Edit	Copy	Delete	Fariz	Malang

iv. Kolom nama dan alamat yang mempunyai nama berakhiran n

```
1 SELECT Nama, Alamat FROM nama_pegawai WHERE Nama LIKE '%n';
```

				Nama	Alamat
<input type="checkbox"/>	Edit	Copy	Delete	Ifan	Kediri
<input type="checkbox"/>	Edit	Copy	Delete	Zakiuddin	Surabaya





v. Kolom nama dan gaji yang mempunyai gaji di atas 15000

```
1 SELECT Nama, Gaji FROM nama_pegawai WHERE Gaji > 15000;
```

				Nama	Gaji
<input type="checkbox"/>	Edit	Copy	Delete	Fariz	17000
<input type="checkbox"/>	Edit	Copy	Delete	Sigit	20000
<input type="checkbox"/>	Edit	Copy	Delete	Ifan	16000
<input type="checkbox"/>	Edit	Copy	Delete	Zakiuddin	21000













vi. Kolom nama, alamat dan gaji yang bergaji di atas 13000 dan beralamat di Surabaya

```
1 SELECT Nama, Alamat, Gaji FROM nama_pegawai WHERE Gaji > 13000 AND Alamat='Surabaya';
```

<div>↩️⏏️⏴</div>				Nama	Alamat	Gaji
<input type="checkbox"/>	 Edit	 Copy	 Delete	Sigit	Surabaya	20000
<input type="checkbox"/>	 Edit	 Copy	 Delete	Zakiuddin	Surabaya	21000

vii. Kolom nama, gaji dengan range gaai di antara 15000-20000

1 `SELECT Nama, Gaji FROM nama_pegawai WHERE Gaji BETWEEN 15000 AND 20000;`

<div>← T →</div>				Nama	Gaji
<input type="checkbox"/>	 Edit	 Copy	 Delete	Fikri	15000
<input type="checkbox"/>	 Edit	 Copy	 Delete	Fariz	17000
<input type="checkbox"/>	 Edit	 Copy	 Delete	Sigit	20000
<input type="checkbox"/>	 Edit	 Copy	 Delete	Ifan	16000

viii. Gaji max, min, rata-rata dari tabel pegawai

1


SELECT MAX(Gaji), MIN(gaji), AVG(Gaji) FROM nama\_pegawai;

MAX(Gaji)	MIN(gaji)	AVG(Gaji)
21000	10000	15625.0000



## 2. Permasalahan 2





- a. 2 tabel pegawai dan departemen yang berhubungan



```
1 CREATE TABLE Departemen(  
2     ID_Dept varchar(5) not null PRIMARY KEY,  
3     Nama_Dept varchar(20) not null  
4 );
```

	#	Name	Type	Collation	Attributes	Null	Default	Co
<input type="checkbox"/>	1	ID_Dept 	varchar(5)	utf8mb4_general_ci		No	None	
<input type="checkbox"/>	2	Nama_Dept	varchar(20)	utf8mb4_general_ci		No	None	

```
1 CREATE TABLE Pegawai(  
2     ID_Peg int(5) not null,  
3     Nama_Peg varchar(20) not null,  
4     Alamat varchar(20) not null,  
5     ID_Dept varchar(20) not null,  
6     PRIMARY KEY(ID_Peg),  
7     FOREIGN KEY(ID_Dept) REFERENCES departemen(ID_Dept)  
8 );
```

	#	Name	Type	Collation	Attributes	Null	Default
<input type="checkbox"/>	1	ID_Peg 	int(5)			No	None
<input type="checkbox"/>	2	Nama_Peg	varchar(20)	utf8mb4_general_ci		No	None
<input type="checkbox"/>	3	Alamat	varchar(20)	utf8mb4_general_ci		No	None
<input type="checkbox"/>	4	ID_Dept 	varchar(20)	utf8mb4_general_ci		No	None

	lat_mysql pegawai
	ID_Peg : int(5)
	Nama_Peg : varchar(20)
	Alamat : varchar(20)
	ID_Dept : varchar(20)













	lat_mysql departemen
	ID_Dept : varchar(5)
	Nama_Dept : varchar(20)














b. Isi data 2 tabel

```
1 INSERT INTO departemen VALUES('A001', 'IT'), ('A002', 'Produksi'),
('A003', 'HRD'), ('A004', 'Engineering');
```

←T→				ID_Dept	Nama_Dept
<input type="checkbox"/>	 Edit	 Copy	 Delete	A001	IT
<input type="checkbox"/>	 Edit	 Copy	 Delete	A002	Produksi
<input type="checkbox"/>	 Edit	 Copy	 Delete	A003	HRD
<input type="checkbox"/>	 Edit	 Copy	 Delete	A004	Engineering

```
1 INSERT INTO pegawai VALUES(100, 'Arif', 'Surabaya', 'A001'), (101,
'Andi', 'Jakarta', 'A002'), (102, 'Burhan', 'Malang', 'A003');
```

←T→				ID_Peg	Nama_Peg	Alamat	ID_Dept
<input type="checkbox"/>	 Edit	 Copy	 Delete	100	Arif	Surabaya	A001
<input type="checkbox"/>	 Edit	 Copy	 Delete	101	Andi	Jakarta	A002
<input type="checkbox"/>	 Edit	 Copy	 Delete	102	Burhan	Malang	A003

c. Buat perintah SQL:

i. Tampilkan nama pegawai , alamat dan nama dep

```
1 SELECT pegawai>Nama_Peg, pegawai.Alamat, departemen>Nama_Dept FROM
pegawai, departemen WHERE pegawai.ID_Dept=departemen.ID_Dept;
```

Nama_Peg	Alamat	Nama_Dept
Arif	Surabaya	IT
Andi	Jakarta	Produksi
Burhan	Malang	HRD

ii. Tampilkan id pegawai, nama dan nama dep

```
1 SELECT pegawai.ID_Peg, pegawai>Nama_Peg, departemen>Nama_Dept FROM  
pegawai, departemen WHERE pegawai.ID_Dept=departemen.ID_Dept;
```

ID_Peg	Nama_Peg	Nama_Dept
100	Arif	IT
101	Andi	Produksi
102	Burhan	HRD