



BASIS DATA

LAPORAN UJIAN TENGAH SEMESTER

Oleh :

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Laporan Ujian Tengah Semester:

1. Membuat Table

```
MySQL [uts]> create table penugasan(
  -> id int primary key,
  -> tanggal_mulai date,
  -> tanggal_selesai date,
  -> peran varchar(150),
  -> id_pegawai int,
  -> id_proyek int,
  -> foreign key (id_pegawai) references pegawai(nip),
  -> foreign key (id_proyek) references proyek(id));
Query OK, 0 rows affected (0.035 sec)
```

```
MySQL [uts]> create table proyek (
  -> id int primary key,
  -> nama_proyek varchar(15),
  -> nama_klien varchar(150),
  -> tanggal_mulai date,
  -> tanggal_selesai date,
  -> status enum("berjalan","selesai","dibatalkan"),
  -> anggaran int);
Query OK, 0 rows affected (0.016 sec)
```

```
MySQL [uts]> create table pegawai(
  -> nip int primary key,
  -> nama_lengkap varchar(150),
  -> jabatan varchar(150),
  -> tanggal_bergabung date,
  -> status bool);
Query OK, 0 rows affected (0.014 sec)
```

2. Menambah data ke table

```
MySQL [uts]> insert into pegawai (nip,nama_lengkap,jabatan,tanggal_bergabung,status) values
  -> (1,"Ray","pegawai","2024-05-3",True),
  -> (2,"Xei","Boss","2020-05-3",True),
  -> (3,"Her","Pegawai","2025-08-4",False);
Query OK, 3 rows affected (0.004 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
MySQL [uts]> insert into penugasan (id,tanggal_mulai,tanggal_selesai,peran,id_pegawai,id_proyek) values
  -> (1,"2022-04-12","2023-05-4","Programmer",2,1),
  -> (2,"2024-07-21","2024-02-9","Design",2,1),
  -> (3,"2024-02-21","2024-04-2","Frontend",1,2);
Query OK, 3 rows affected (0.005 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
MySQL [uts]> insert into proyek (id,nama_proyek,nama_klien,tanggal_mulai,tanggal_selesai,status,anggaran) values
-> (2,"Studi","Yui","2024-02-12","2025-05-1","berjalan",1500000),
-> (3,"Design","Nek","2024-01-20","2025-07-24","dibatalkan",2500000);
Query OK, 2 rows affected (0.003 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

3. Memunculkan Table

```
MySQL [uts]> select * from penugasan;
```

id	tanggal_mulai	tanggal_selesai	peran	id_pegawai	id_proyek
1	2022-04-12	2023-05-04	Programmer	2	1
2	2024-07-21	2024-02-09	Design	2	1
3	2024-02-21	2024-04-02	Frontend	1	2

```
3 rows in set (0.000 sec)
```

```
MySQL [uts]> select * from proyek;
```

id	nama_proyek	nama_klien	tanggal_mulai	tanggal_selesai	status	anggaran
1	Programmer	alex	2022-04-02	2023-06-10	selesai	1000000
2	Studi	Yui	2024-02-12	2025-05-01	berjalan	1500000
3	Design	Nek	2024-01-20	2025-07-24	dibatalkan	2500000

```
3 rows in set (0.000 sec)
```

```
MySQL [uts]> select * from pegawai
-> ;
```

nip	nama_lengkap	jabatan	tanggal_bergabung	status
1	Ray	pegawai	2024-05-03	1
2	Xei	Boss	2020-05-03	1
3	Her	Pegawai	2025-08-04	0

```
3 rows in set (0.000 sec)
```

4. Mengupdate kolom

```
MySQL [uts]> update pegawai
-> set jabatan = "Boss"
-> where nip = 1;
Query OK, 1 row affected (0.003 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MySQL [uts]> select * from pegawai where nip = 1;
```

nip	nama_lengkap	jabatan	tanggal_bergabung	status
1	Ray	Boss	2024-05-03	1

```
1 row in set (0.000 sec)
```

5. Delete Field

```
MySQL [uts]> delete from pegawai where nip = 3
-> ;
Query OK, 1 row affected (0.002 sec)

MySQL [uts]> select * from pegawai where nip = 3
-> ;
Empty set (0.000 sec)

MySQL [uts]> |
```

6. Alias

```
MySQL [uts]> select
-> nip as "Nomor Pegawai",
-> nama_lengkap as "full name",
-> jabatan as "posisi",
-> status as "keadaan"
-> from pegawai;

+-----+-----+-----+-----+
| Nomor Pegawai | full name | posisi | keadaan |
+-----+-----+-----+-----+
|          1 | Ray      | Boss   | 1        |
|          2 | Xei      | Boss   | 1        |
+-----+-----+-----+-----+
2 rows in set (0.000 sec)

MySQL [uts]> |
```

7. limit

```
MySQL [uts]> select * from proyek where anggaran > 0 order by anggaran limit 2;

+-----+-----+-----+-----+-----+-----+
| id | nama_proyek | nama_klien | tanggal_mulai | tanggal_selesai | status | anggaran |
+-----+-----+-----+-----+-----+-----+
| 1 | Programmer | alex      | 2022-04-02    | 2023-06-10      | selesai | 1000000 |
| 2 | Studi      | Yui       | 2024-02-12    | 2025-05-01      | berjalan | 1500000 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)

MySQL [uts]> |
```

8. Order by

```
MySQL [uts]> select * from proyek order by anggaran asc, id desc;

+-----+-----+-----+-----+-----+-----+
| id | nama_proyek | nama_klien | tanggal_mulai | tanggal_selesai | status | anggaran |
+-----+-----+-----+-----+-----+-----+
| 1 | Programmer | alex      | 2022-04-02    | 2023-06-10      | selesai | 1000000 |
| 2 | Studi      | Yui       | 2024-02-12    | 2025-05-01      | berjalan | 1500000 |
| 3 | Design     | Nek       | 2024-01-20    | 2025-07-24      | dibatalkan | 2500000 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)
```

9. Join

```
MySQL [uts]> select * from pegawai
-> join proyek on (pegawai.nip = proyek.id);
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| nip | nama_lengkap | jabatan | tanggal_bergabung | status | id | nama_proyek | nama_klien | tanggal_mulai | tanggal_selesai | status | anggaran |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Ray | Boss | 2024-05-03 | 1 | 1 | Programmer | alex | 2022-04-02 | 2023-06-10 | selesai | 1000000 |
| 2 | Xei | Boss | 2020-05-03 | 1 | 2 | Studi | Yui | 2024-02-12 | 2025-05-01 | berjalan | 1500000 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)

MySQL [uts]> |
```