



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 | 10000000 |
| 2 | Studi | Yui | 2024-02-12 | 2025-05-01 | berjalan | 15000000 |
+-----+-----+-----+-----+-----+-----+-----+
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 | 10000000 |
| 2 | Studi | Yui | 2024-02-12 | 2025-05-01 | berjalan | 15000000 |
| 3 | Design | Nek | 2024-01-20 | 2025-07-24 | dibatalkan | 25000000 |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)
```

9. Join

Basis Data: Laporan UTS

```
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]> |
```