

NAMA: Adani Salsabila NIM: 2341720123

KELAS: 1-G

MATERI: UAS BASIS DATA

1. Membuat database di Mysql dengan nama DB_2341720123_PEGAWAI_UJIAN

```
MariaDB [(none)]> CREATE DATABASE DB_2341720123_PEGAWAI_UJIAN;
Query OK, 1 row affected (0.001 sec)
```

- 2. Membuat 3 tabel sesuai diagram.
- a. T PEGAWAI

```
MariaDB [(none)]> use DB_2341720123_PEGAWAI_UJIAN;
Database changed

MariaDB [DB_2341720123_PEGAWAI_UJIAN]> create table T_PEGAWAI (
-> nopeg char (4) primary key,
-> nama varchar (25),
-> golongan smallint,
-> alamat varchar(50),
-> masakerja smallint);
Query OK, 0 rows affected (0.038 sec)
```

b. T GAJI

```
MariaDB [DB_2341720123_PEGAWAI_UJIAN]> create table T_GAJI (
-> bulan smallint not null,
-> tahun smallint not null,
-> primary key (bulan, tahun),
-> nopeg char (4),
-> foreign key (nopeg) references T_PEGAWAI (nopeg),
-> gaji_pokok bigint,
-> tunjangan bigint);
Query OK, 0 rows affected (0.059 sec)
```

c. T_ABSENSI

```
Command Prompt - mysql -u root

MariaDB [DB_2341720123_PEGAWAI_UJIAN]> create table T_ABSENSI (
-> nopeg char (4),
-> foreign key (nopeg) references T_PEGAWAI (nopeg),
-> bulan smallint,
-> tahun smallint,
-> sakit smallint,
-> sakit smallint,
-> ijin smallint,
-> alpha smallint);

Query OK, 0 rows affected (0.055 sec)

Database changed

MariaDB [DB_2341720123_PEGAWAI_UJIAN]> alter table T_ABSENSI add constraint bulan foreign key (bulan) references T_GAJI (bulan);
Query OK, 0 rows affected (0.128 sec)
Records: 0 Duplicates: 0 Warnings: 0
```



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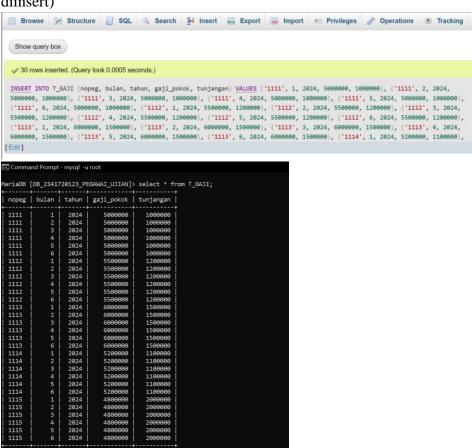
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3. Mengisi tabel

a. T PEGAWAI

b. T_GAJI (membuat tabel baru tanpa primary key karena yang di atas error tidak bisa diinsert)





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c. T_ABSENSI (membuat tabel baru tanpa foreign key karena yang awal error tidak bisa diinsert dikarenakan ada duplicate primary key)

```
Run SQL query/queries on table db_2341720123_pegawai_ujian.t_absensi: 📦
      1 INSERT INTO t_absensi (nopeg, bulan, tahun, sakit, ijin, alpha) VALUES
      2 ('1111', 1, 2024, 2, 1, 0),
      3 ('1111', 2, 2024, 1, 0, 1),
      4 ('1111', 3, 2024, 3, 0, 0),
     5 ('1111', 4, 2024, 0, 2, 0),
6 ('1111', 5, 2024, 1, 0, 1),
      7 ('1111', 6, 2024, 0, 1, 0),
     9 ('1112', 1, 2024, 0, 1, 1),
    10 ('1112', 2, 2024, 1, 0, 0),
    11 ('1112', 3, 2024, 0, 0, 2),
    12 ('1112', 4, 2024, 2, 0, 0),
    13 ('1112', 5, 2024, 1, 0, 1),
    14 ('1112', 6, 2024, 0, 1, 0),
    16 ('1113', 1, 2024, 1, 0, 1),
17 ('1113', 2, 2024, 0, 2, 0),
    18 ('1113', 3, 2024, 1, 0, 0),
    19 ('1113', 4, 2024, 0, 1, 1),
    20 ('1113', 5, 2024, 2, 0, 0),
  ■ Browse  Structure  SQL  Search  Insert  Export  Import  Import  Priv
   Run SQL query/queries on table db_2341720123_pegawai_ujian.t_absensi: 🕡
        17 ('1113', 2, 2024, 0, 2, 0),
       18 ('1113', 3, 2024, 1, 0, 0),
       19 ('1113', 4, 2024, 0, 1, 1),
       20 ('1113', 5, 2024, 2, 0, 0),
       21 ('1113', 6, 2024, 0, 1, 1),
       23 ('1114', 1, 2024, 0, 0, 1),
       24 ('1114', 2, 2024, 1, 1, 0),
       25 ('1114', 3, 2024, 0, 1, 1),
       26 ('1114', 4, 2024, 1, 0, 1),
       27 ('1114', 5, 2024, 0, 1, 0),
       28 ('1114', 6, 2024, 1, 0, 1),
       30 ('1115', 1, 2024, 0, 1, 0),
       31 ('1115', 2, 2024, 1, 0, 1),
       32 ('1115', 3, 2024, 0, 2, 0),
       33 ('1115', 4, 2024, 1, 0, 1),
34 ('1115', 5, 2024, 0, 1, 0),
        35 ('1115', 6, 2024, 1, 0, 1);
RROR 1064 (42000): You have an error in your SQL syntax; check
MariaDB [DB_2341720123_PEGAWAI_UJIAN]> select * from T_ABSENSI;
nopeg | bulan | tahun | sakit | ijin | alpha |
1115
1115
1115
1115
1115
0 rows in set (0.001 sec)
```



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4. Query

a. Daftar pegawai dengan masa kerja di atas 10 tahun.

```
MariaDB [DB_2341720123_PEGAWAI_UJIAN]> select nopeg, nama, masakerja from T_PEGAWAI where masakerja > 10;

| nopeg | nama | masakerja |
| 1111 | jaemin | 25 |
| 1112 | jeno | 11 |
| 1115 | mark | 28 |
| 3 rows in set (0.001 sec)
```

b. Total alpha, ijin, sakit semua pegawai dalam satu tahun 2024.

c. Jika setiap ketidakhadiran pegawai dipotong (sakit 20.000, ijin 50.000, alpha 100.000), tampilkan pendapatan setiap pegawai selama tahun 2024 setelah dipotong ketidakhadiran.