

Tugas 1
BASIS DATA



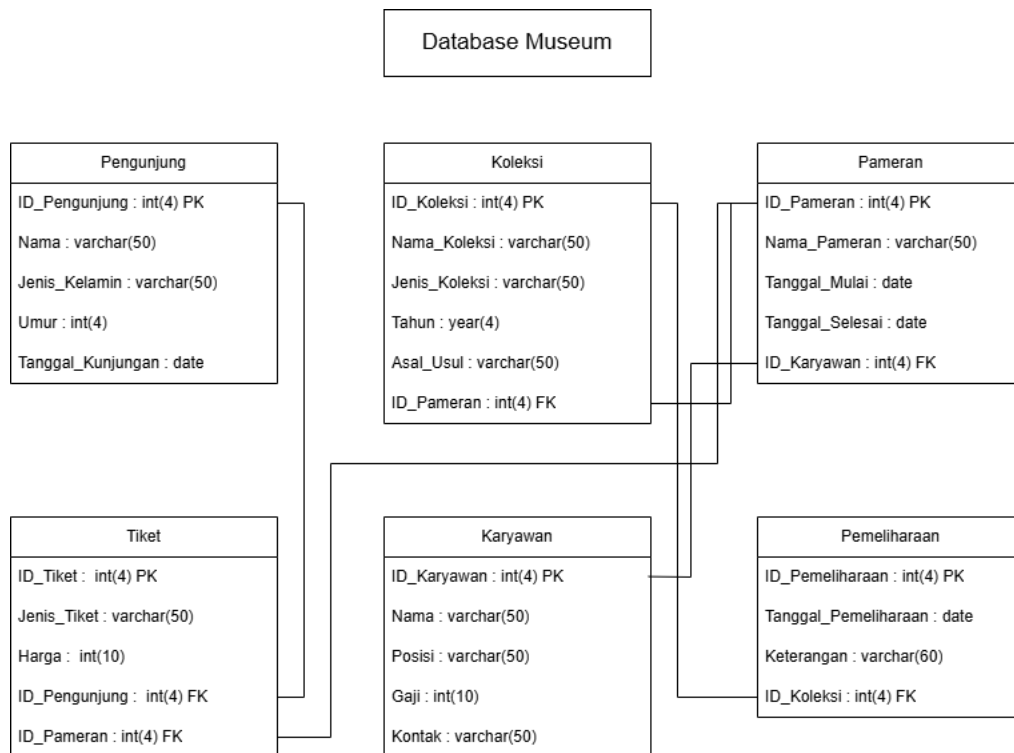
Disusun oleh :

Nama	NIM
Juwita	D0223339

PRODI INFORMATIKA
FAKULTAS TEKNIK
UNIVERSITAS SULAWESI BARAT

2024

1. ERD



2. Membuat database Museum

```
MariaDB [(none)]> create database Museum;
Query OK, 1 row affected (0.008 sec)

MariaDB [(none)]> |
```

3. Masuk dalam database tersebut

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

4. Membuat dan mengisi atribut tabel

a) Pengunjung

```
MariaDB [Museum]> create table Pengunjung
-> (ID_Pengunjung int(4) not null primary key,
-> Nama varchar(50),
-> Jenis_Kelamin varchar(50),
-> Umur int(4),
-> Tanggal_Kunjungan date);
Query OK, 0 rows affected (0.022 sec)

MariaDB [Museum]> desc Pengunjung;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ID_Pengunjung  | int(4)        | NO   | PRI | NULL    |       |
| Nama           | varchar(50)   | YES  |     | NULL    |       |
| Jenis_Kelamin  | varchar(50)   | YES  |     | NULL    |       |
| Umur           | int(4)        | YES  |     | NULL    |       |
| Tanggal_Kunjungan | date         | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.032 sec)

MariaDB [Museum]> |
```

b) Tiket

```
MariaDB [museum]> create table Tiket
-> (ID_Tiket int(4) not null primary key,
-> Jenis_Tiket varchar(50),
-> Harga int(10),
-> ID_Pengunjung int(4),
-> ID_Pameran int(4),
-> foreign key (ID_Pengunjung) references pengunjung(ID_Pengunjung),
-> foreign key (ID_Pameran) references Pameran(ID_Pameran));
Query OK, 0 rows affected (0.063 sec)

MariaDB [museum]> desc tiket;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ID_Tiket       | int(4)        | NO   | PRI | NULL    |       |
| Jenis_Tiket    | varchar(50)   | YES  |     | NULL    |       |
| Harga          | int(10)       | YES  |     | NULL    |       |
| ID_Pengunjung  | int(4)        | YES  | MUL | NULL    |       |
| ID_Pameran     | int(4)        | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.034 sec)

MariaDB [museum]> |
```

c) Karyawan

```

MariaDB [Museum]> create table Karyawan
  -> (ID_Karyawan int(4) not null primary key,
  -> Nama_Karyawan varchar(50),
  -> Posisi varchar(50),
  -> Gaji int(10),
  -> Kontak varchar(15));
Query OK, 0 rows affected (0.023 sec)

MariaDB [Museum]> desc Karyawan;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ID_Karyawan    | int(4)        | NO   | PRI | NULL    |       |
| Nama_Karyawan  | varchar(50)   | YES  |     | NULL    |       |
| Posisi         | varchar(50)   | YES  |     | NULL    |       |
| Gaji           | int(10)       | YES  |     | NULL    |       |
| Kontak         | varchar(15)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.032 sec)

MariaDB [Museum]> |

```

d) Pameran

```

MariaDB [Museum]> create table Pameran
  -> (ID_Pameran int(4) not null primary key,
  -> Nama_Pameran varchar(50),
  -> Tanggal_Mulai date,
  -> Tanggal_Selesai date,
  -> ID_Karyawan int(4),
  -> foreign key(ID_Karyawan) references Karyawan(ID_Karyawan));
Query OK, 0 rows affected (0.044 sec)

MariaDB [Museum]> desc Pameran;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ID_Pameran     | int(4)        | NO   | PRI | NULL    |       |
| Nama_Pameran   | varchar(50)   | YES  |     | NULL    |       |
| Tanggal_Mulai  | date          | YES  |     | NULL    |       |
| Tanggal_Selesai | date          | YES  |     | NULL    |       |
| ID_Karyawan    | int(4)        | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.030 sec)

MariaDB [Museum]> |

```

e) Koleksi

```

MariaDB [Museum]> create table Koleksi
  -> (ID_Koleksi int(4) not null primary key,
  -> Nama_Koleksi varchar(50),
  -> Jenis_Koleksi varchar(50),
  -> Tahun year,
  -> Asal_Usul varchar(50),
  -> ID_Pameran int(4),
  -> foreign key(ID_Pameran) references Pameran(ID_Pameran));
Query OK, 0 rows affected (0.052 sec)

MariaDB [Museum]> desc Koleksi;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ID_Koleksi     | int(4)        | NO   | PRI | NULL    |       |
| Nama_Koleksi   | varchar(50)   | YES  |     | NULL    |       |
| Jenis_Koleksi  | varchar(50)   | YES  |     | NULL    |       |
| Tahun         | year(4)       | YES  |     | NULL    |       |
| Asal_Usul     | varchar(50)   | YES  |     | NULL    |       |
| ID_Pameran     | int(4)        | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.030 sec)

MariaDB [Museum]> |

```

f) Pemeliharaan

```

MariaDB [Museum]> create table Pemeliharaan
  -> (ID_Pemeliharaan int(4) not null primary key,
  -> Tanggal_Pemeliharaan date,
  -> Keterangan varchar(60),
  -> ID_Koleksi int(4),
  -> foreign key(ID_Koleksi) references Koleksi(ID_Koleksi));
Query OK, 0 rows affected (0.051 sec)

MariaDB [Museum]> desc Pemeliharaan;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ID_Pemeliharaan | int(4)        | NO   | PRI | NULL    |       |
| Tanggal_Pemeliharaan | date         | YES  |     | NULL    |       |
| Keterangan      | varchar(60)   | YES  |     | NULL    |       |
| ID_Koleksi      | int(4)        | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.034 sec)

MariaDB [Museum]> |

```

5. Mengisi data pada table

a) Pengunjung

```

MariaDB [Museum]> insert into Pengunjung values
  -> (1,"Andi Pratama","Laki-laki",30,"2024-11-01"),
  -> (2,"Siti Rahmawati","Perempuan",25,"2024-11-03"),
  -> (3,"Budi Santoso","Laki-laki",35,"2024-11-02"),
  -> (4,"Ayu Lestari","Perempuan",28,"2024-11-04"),
  -> (5,"Rudi Hermawan","Laki-laki",22,"2024-11-05"),
  -> (6,"Dewi Susanti","Perempuan",22,"2024-11-06"),
  -> (7,"Farhan Wijaya","Laki-laki",26,"2024-11-07");
Query OK, 7 rows affected (0.010 sec)
Records: 7 Duplicates: 0 Warnings: 0

```

```

MariaDB [Museum]> select * from Pengunjung;
+-----+-----+-----+-----+-----+
| ID_Pengunjung | Nama          | Jenis_Kelamin | Umur | Tanggal_Kunjungan |
+-----+-----+-----+-----+-----+
| 1 | Andi Pratama | Laki-laki     | 30   | 2024-11-01        |
| 2 | Siti Rahmawati | Perempuan    | 25   | 2024-11-03        |
| 3 | Budi Santoso  | Laki-laki     | 35   | 2024-11-02        |
| 4 | Ayu Lestari   | Perempuan     | 28   | 2024-11-04        |
| 5 | Rudi Hermawan | Laki-laki     | 22   | 2024-11-05        |
| 6 | Dewi Susanti  | Perempuan     | 22   | 2024-11-06        |
| 7 | Farhan Wijaya | Laki-laki     | 26   | 2024-11-07        |
+-----+-----+-----+-----+-----+
7 rows in set (0.005 sec)

MariaDB [Museum]> |

```

b) Tiket

```

MariaDB [museum]> insert into tiket values
  -> (1,"Dewasa",50000,1,1),
  -> (2,"Anak-anak",30000,2,1),
  -> (3,"Dewasa",50000,3,2),
  -> (4,"Dewasa",50000,4,3),
  -> (5,"Anak-anak",30000,5,4),
  -> (6,"Dewasa",50000,6,2),
  -> (7,"Dewasa",50000,7,4);
Query OK, 7 rows affected (0.015 sec)
Records: 7 Duplicates: 0 Warnings: 0

```

```

MariaDB [museum]> select * from tiket;
+-----+-----+-----+-----+-----+
| ID_Tiket | Jenis_Tiket | Harga | ID_Pengunjung | ID_Pameran |
+-----+-----+-----+-----+-----+
| 1 | Dewasa      | 50000 | 1 | 1 |
| 2 | Anak-anak   | 30000 | 2 | 1 |
| 3 | Dewasa      | 50000 | 3 | 2 |
| 4 | Dewasa      | 50000 | 4 | 3 |
| 5 | Anak-anak   | 30000 | 5 | 4 |
| 6 | Dewasa      | 50000 | 6 | 2 |
| 7 | Dewasa      | 50000 | 7 | 4 |
+-----+-----+-----+-----+-----+
7 rows in set (0.005 sec)

MariaDB [museum]> |

```

c) Karyawan

```
MariaDB [Museum]> insert into Karyawan values
-> (1,"Joko Sutrisno","Kurator",6000000,"081234567890"),
-> (2,"Siti Nurhayati","Pengawas",5000000,"081234567891"),
-> (3,"Rudi Prasetyo","Penjaga",4500000,"081234567892"),
-> (4,"Indah Sari","Kurator",7000000,"081234567893"),
-> (5,"Agus Santoso","Pengawas",5500000,"081234567894"),
-> (6,"Farah Azizah","Penjaga",4000000,"081234567895"),
-> (7,"Reza Putra","Kurator",6500000,"081234567896");
Query OK, 7 rows affected (0.009 sec)
Records: 7 Duplicates: 0 Warnings: 0

MariaDB [Museum]> select * from Karyawan;
+-----+-----+-----+-----+-----+
| ID_Karyawan | Nama_Karyawan | Posisi | Gaji | Kontak |
+-----+-----+-----+-----+-----+
| 1 | Joko Sutrisno | Kurator | 6000000 | 081234567890 |
| 2 | Siti Nurhayati | Pengawas | 5000000 | 081234567891 |
| 3 | Rudi Prasetyo | Penjaga | 4500000 | 081234567892 |
| 4 | Indah Sari | Kurator | 7000000 | 081234567893 |
| 5 | Agus Santoso | Pengawas | 5500000 | 081234567894 |
| 6 | Farah Azizah | Penjaga | 4000000 | 081234567895 |
| 7 | Reza Putra | Kurator | 6500000 | 081234567896 |
+-----+-----+-----+-----+-----+
7 rows in set (0.001 sec)

MariaDB [Museum]> |
```

d) Pameran

```
MariaDB [Museum]> insert into Pameran values
-> (1,"Pameran Sejarah","2024-11-01","2024-11-10",1),
-> (2,"Pameran Seni","2024-11-05","2024-11-15",2),
-> (3,"Pameran Kuno","2024-11-07","2024-11-14",3),
-> (4,"Pameran Kerajaan","2024-11-02","2024-11-12",4),
-> (5,"Pameran Modern","2024-11-06","2024-11-13",5),
-> (6,"Pameran Budaya","2024-11-08","2024-11-16",6),
-> (7,"Pameran Teknologi","2024-11-09","2024-11-18",7);
Query OK, 7 rows affected (0.008 sec)
Records: 7 Duplicates: 0 Warnings: 0

MariaDB [Museum]> select * from Pameran;
+-----+-----+-----+-----+-----+
| ID_Pameran | Nama_Pameran | Tanggal_Mulai | Tanggal_Selesai | ID_Karyawan |
+-----+-----+-----+-----+-----+
| 1 | Pameran Sejarah | 2024-11-01 | 2024-11-10 | 1 |
| 2 | Pameran Seni | 2024-11-05 | 2024-11-15 | 2 |
| 3 | Pameran Kuno | 2024-11-07 | 2024-11-14 | 3 |
| 4 | Pameran Kerajaan | 2024-11-02 | 2024-11-12 | 4 |
| 5 | Pameran Modern | 2024-11-06 | 2024-11-13 | 5 |
| 6 | Pameran Budaya | 2024-11-08 | 2024-11-16 | 6 |
| 7 | Pameran Teknologi | 2024-11-09 | 2024-11-18 | 7 |
+-----+-----+-----+-----+-----+
7 rows in set (0.001 sec)

MariaDB [Museum]> |
```

e) Koleksi

```
MariaDB [Museum]> insert into Koleksi values
-> (1,"Patung Pahlawan","Patung",1800,"Indonesia",1),
-> (2,"Lukisan Sejarah","Lukisan",1920,"Indonesia",1),
-> (3,"Keris Kuno","Senjata Kuno",1700,"Jawa",2),
-> (4,"Prasasti Batu","Batu Bersejarah",800,"Bali",3),
-> (5,"Arca Dewi","Patung",1500,"Bali",4),
-> (6,"Rantai Perdagangan","Alat Perdagangan",1600,"Sulawesi",4),
-> (7,"Wayang Kulit","Seni Budaya",1900,"Jawa",2);
Query OK, 7 rows affected, 6 warnings (0.015 sec)
Records: 7 Duplicates: 0 Warnings: 6
```

```
MariaDB [Museum]> select * from Koleksi;
```

ID_Koleksi	Nama_Koleksi	Jenis_Koleksi	Tahun	Asal_Usul	ID_Pameran
1	Patung Pahlawan	Patung	0000	Indonesia	1
2	Lukisan Sejarah	Lukisan	1920	Indonesia	1
3	Keris Kuno	Senjata Kuno	0000	Jawa	2
4	Prasasti Batu	Batu Bersejarah	0000	Bali	3
5	Arca Dewi	Patung	0000	Bali	4
6	Rantai Perdagangan	Alat Perdagangan	0000	Sulawesi	4
7	Wayang Kulit	Seni Budaya	0000	Jawa	2

7 rows in set (0.002 sec)

```
MariaDB [Museum]> |
```

f) Pemeliharaan

```
MariaDB [Museum]> insert into Pemeliharaan values
-> (1,"2024-11-01","Pembersihan dan perbaikan patung",1),
-> (2,"2024-11-02","Perawatan lukisan sejarah",2),
-> (3,"2024-11-03","Pengecekan kondisi keris kuno",3),
-> (4,"2024-11-04","Pemeliharaan prasasti batu",4),
-> (5,"2024-11-05","Pemeriksaan kondisi arca dewi",5),
-> (6,"2024-11-06","Pembersihan wayang kulit",7),
-> (7,"2024-11-07","Perawatan rantai perdagangan",6);
Query OK, 7 rows affected (0.009 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

```
MariaDB [Museum]> select * from Pemeliharaan;
```

ID_Pemeliharaan	Tanggal_Pemeliharaan	Keterangan	ID_Koleksi
1	2024-11-01	Pembersihan dan perbaikan patung	1
2	2024-11-02	Perawatan lukisan sejarah	2
3	2024-11-03	Pengecekan kondisi keris kuno	3
4	2024-11-04	Pemeliharaan prasasti batu	4
5	2024-11-05	Pemeriksaan kondisi arca dewi	5
6	2024-11-06	Pembersihan wayang kulit	7
7	2024-11-07	Perawatan rantai perdagangan	6

7 rows in set (0.001 sec)

```
MariaDB [Museum]> |
```