LAPORAN

PRAKTIKUM SISTEM BASIS DATA

(MODUL 5)

"Data Manipulation Language (DML)"

Disusun oleh :

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INFORMATIKA

FAKULTAS KOMUNIKASI DAN INFORMATIKA

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TUGAS

Membuat table dbuniversitas ke setiap tabel dalam database yang telah anda buat pada modul 4. Print out hasil implementasi rancangan tersebut dan analisa hasilnya.

Dosen

```
MariaDB [dbuniversitas1]> insert into dosen(nip,mata_kuliahFK, nama_dosen, alamat_dosen)
    -> values('969','Rekayasa Perangkat Lunak', 'Endah Sudarmilah', 'Jl.Kenanga 23'),
    -> ('881','Praktikum Algoritma Struktur Data', 'Aris Rakhmadi', 'Jl.Mawar 85'),
    -> ('706','Algoritma Struktur Data', 'Husni Thamrin', 'Jl.Melati 34'),
    -> ('1002057','Praktikum Jaringan Komputer', 'Ihsan Cahyo Utomo', 'Jl.Tulip 55'),
    -> ('1001985','Sistem Basis Data', 'Helmi Imaduddin', 'Jl.Anggrek 10'),
    -> ('130100','Bahasa Indonesia', 'Lusiana Pujiastuti', 'Jl.Guido 9'),
    -> ('130110','Pancasila', 'Haryono Yuwono', 'Jl.Alice 34'),
    -> ('130120','Kemuhammadiyahan', 'Yeti Dahliana', 'Jl.Greenfoot 1'),
    -> ('130450','Logika Himpunan', 'Yusuf Sulistyo Nugroho', 'Jl.Figma 31'),
    -> ('130540','Pemrograman Basis Data', 'Dimas Aryo Anggoro', 'Jl.Eclipse 18');
Query OK, 10 rows affected (0.013 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [dbuniversitas1]> select *from dosen;
+---------+-----------------------------------+------------------------+----------------+
| nip     | mata_kuliahFK                     | nama_dosen             | alamat_dosen   |
+---------+-----------------------------------+------------------------+----------------+
|     706 | Algoritma Struktur Data           | Husni Thamrin          | Jl.Melati 34   |
|     881 | Praktikum Algoritma Struktur Data | Aris Rakhmadi          | Jl.Mawar 85    |
|     969 | Rekayasa Perangkat Lunak          | Endah Sudarmilah       | Jl.Kenanga 23  |
|  130100 | Bahasa Indonesia                  | Lusiana Pujiastuti     | Jl.Guido 9     |
|  130110 | Pancasila                         | Haryono Yuwono         | Jl.Alice 34    |
|  130120 | Kemuhammadiyahan                  | Yeti Dahliana          | Jl.Greenfoot 1 |
|  130450 | Logika Himpunan                   | Yusuf Sulistyo Nugroho | Jl.Figma 31    |
|  130540 | Pemrograman Basis Data            | Dimas Aryo Anggoro     | Jl.Eclipse 18  |
| 1001985 | Sistem Basis Data                 | Helmi Imaduddin        | Jl.Anggrek 10  |
| 1002057 | Praktikum Jaringan Komputer       | Ihsan Cahyo Utomo      | Jl.Tulip 55    |
+---------+-----------------------------------+------------------------+----------------+
10 rows in set (0.000 sec)

MariaDB [dbuniversitas1]>
```

Mahasiswa

```
MariaDB [dbuniversitas1]> insert into mahasiswa(nim,nip_dosenFK, nama_mahasiswa, alamat_mahasiswa)
    -> values('200200106','706','Cindi Dila Apriliana', 'Jl.Uranus 10'),
    -> ('200200074','706','Andika Risky Faizatama', 'Jl.Saturnus 12'),
    -> ('200200072','706','Rida Arina Rosyada', 'Jl.Pluto 22'),
    -> ('200200101','706','Nicky Julyatrika Sari', 'Jl.Venus 30'),
    -> ('200200069','706','Dionaca Wida Amaly', 'Jl.Merkurius 16'),
    -> ('200200120','706','Lyan Budi Rosawati', 'Jl.Bumi 56'),
    -> ('200200117','706','Fajar Indah Nur Azizah', 'Jl.Tulip 3'),
    -> ('200200083','706','Dinny Patria Muslimawati', 'Jl.Bougenvile 5'),
    -> ('200200088','706','Muhammad Naufal Aji Satrio','Jl.Kipas 21'),
    -> ('200200100','706','Muhammad Alichwan','Jl.Aloevera11');
Query OK, 10 rows affected (0.003 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [dbuniversitas1]> select *from mahasiswa;
+-----------+-------------+--------------------------+------------------+
| nim       | nip_dosenFK | nama_mahasiswa           | alamat_mahasiswa |
+-----------+-------------+--------------------------+------------------+
| 200200069 |         706 | Dionaca Wida Amaly       | Jl.Merkurius 16  |
| 200200072 |         706 | Rida Arina Rosyada       | Jl.Pluto 22      |
| 200200074 |         706 | Andika Risky Faizatama   | Jl.Saturnus 12   |
| 200200083 |         706 | Dinny Patria Muslimawati | Jl.Bougenvile 5  |
| 200200088 |         706 | Muhammad Naufal Aji Satrio | Jl.Kipas 21    |
| 200200100 |         706 | Muhammad Alichwan        | Jl.Aloevera11    |
| 200200101 |         706 | Nicky Julyatrika Sari    | Jl.Venus 30      |
| 200200106 |         706 | Cindi Dila Apriliana     | Jl.Uranus 10     |
| 200200117 |         706 | Fajar Indah Nur Azizah   | Jl.Tulip 3       |
| 200200120 |         706 | Lyan Budi Rosawati       | Jl.Bumi 56       |
+-----------+-------------+--------------------------+------------------+
10 rows in set (0.000 sec)

MariaDB [dbuniversitas1]>
```

Mahasiswa_has_mata_kuliah

```
MariaDB [dbuniversitas1]> insert into mahasiswa_has_mata_kuliah(mahasiswa_nimFK,mata_kuliah_semesterFK)
    -> VALUE('200200106', '1'),
    -> ('200200074', '2'),
    -> ('200200072', '3'),
    -> ('200200069', '4'),
    -> ('200200101', '5'),
    -> ('200200098', '2'),
    -> ('200200099', '3'),
    -> ('200200056', '4'),
    -> ('200200107', '5'),
    -> ('200200109', '5');
Query OK, 10 rows affected (0.015 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [dbuniversitas1]> select *from mahasiswa_has_mata_kuliah;
+----------------+------------------------+
| mahasiswa_nimFK | mata_kuliah_semesterFK |
+----------------+------------------------+
|      200200106 |                      1 |
|      200200074 |                      2 |
|      200200072 |                      3 |
|      200200069 |                      4 |
|      200200101 |                      5 |
|      200200106 |                      1 |
|      200200074 |                      2 |
|      200200072 |                      3 |
|      200200069 |                      4 |
|      200200101 |                      5 |
|      200200098 |                      2 |
|      200200099 |                      3 |
|      200200056 |                      4 |
|      200200107 |                      5 |
|      200200109 |                      5 |
+----------------+------------------------+
15 rows in set (0.000 sec)

MariaDB [dbuniversitas1]>
```

Mata_kuliah

```
MariaDB [dbuniversitas1]> insert into mata_kuliah(semester, sks_matkul, nama_matkul)
    -> values('1', '2','Praktikum Algoritma Pemrograman'),
    -> ('2', '2', 'Praktikum Sistem Digital'),
    -> ('3', '2', 'Praktikum Pemrograman Beroreantasi'),
    -> ('4', '2', 'Praktikum Jaringan Komputer'),
    -> ('5', '2', 'Sistem Basis Data'),
    -> ('6', '2','Rekayasa Perangkat Lunak'),
    -> ('7', '2','Bahasa indonesia'),
    -> ('8', '2','Kemuhammadiyahan'),
    -> ('9', '2','Algoritma Strukur Data'),
    -> ('10', '2','Jaringan Komputer');
Query OK, 10 rows affected (0.014 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [dbuniversitas1]> select *from mata_kuliah;
+----------+------------+------------------------------------+
| semester | sks_matkul | nama_matkul                        |
+----------+------------+------------------------------------+
|        1 |          2 | Praktikum Algoritma Pemrograman    |
|        2 |          2 | Praktikum Sistem Digital           |
|        3 |          2 | Praktikum Pemrograman Beroreantasi |
|        4 |          2 | Praktikum Jaringan Komputer        |
|        5 |          2 | Sistem Basis Data                  |
|        6 |          2 | Rekayasa Perangkat Lunak           |
|        7 |          2 | Bahasa indonesia                   |
|        8 |          2 | Kemuhammadiyahan                   |
|        9 |          2 | Algoritma Strukur Data             |
|       10 |          2 | Jaringan Komputer                  |
+----------+------------+------------------------------------+
10 rows in set (0.000 sec)

MariaDB [dbuniversitas1]>
```

Ruang_kelas

```
MariaDB [dbuniversitas1]> insert into ruang_kelas(jam_kelas, mata_kuliah_semesterFK, jumlah, kapasitas, kode_kelas)
    -> values('1', '1' , '30', '50', 'JSEM2'),
    -> ('2', '1' , '35', '50', 'J0410'),
    -> ('3', '1', '40', '50', 'LABRPL'),
    -> ('4', '1' , '30', '50', 'LSITIF'),
    -> ('5', '2', '50', '50', 'JSEM2'),
    -> ('6', '2' , '35', '50', 'J0410'),
    -> ('7', '1', '30', '50', 'LSITIF'),
    -> ('8', '2' , '50', '50', 'JSEM2'),
    -> ('9', '2', '40', '50', 'LABRPL'),
    -> ('10', '2' , '35', '50', 'J0410');
Query OK, 10 rows affected (0.003 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [dbuniversitas1]> select *from ruang_kelas;
+-----------+------------------------+--------+-----------+------------+
| jam_kelas | mata_kuliah_semesterFK | jumlah | kapasitas | kode_kelas |
+-----------+------------------------+--------+-----------+------------+
|         1 |                      1 |     30 |        50 | JSEM2      |
|         2 |                      1 |     35 |        50 | J0410      |
|         3 |                      1 |     40 |        50 | LABRPL     |
|         4 |                      1 |     30 |        50 | LSITIF     |
|         5 |                      2 |     50 |        50 | JSEM2      |
|         6 |                      2 |     35 |        50 | J0410      |
|         7 |                      1 |     30 |        50 | LSITIF     |
|         8 |                      2 |     50 |        50 | JSEM2      |
|         9 |                      2 |     40 |        50 | LABRPL     |
|        10 |                      2 |     35 |        50 | J0410      |
+-----------+------------------------+--------+-----------+------------+
10 rows in set (0.000 sec)

MariaDB [dbuniversitas1]>
```

Transaksi 20 table


```
MariaDB [dbuniversitas1]> INSERT INTO  transaksi(no,ruang, kode_mk, nama_mk, nama_dosen)
    -> VALUES(1,'LabKom', '4121', 'Praktikum Algoritma Struktur Data', 'Dimas Aryo Anggoro'),
    -> (2,'LabRPL', '4221', 'Praktikum Jaringan Komputer', 'Ihsan Cahyo Utomo'),
    -> (3,'LabSI', '4321', 'Praktikum Sistem Basis Data', 'Heru Setiya Nugraha'),
    -> (4,'LabRPL', '4221', 'Praktikum Jaringan Komputer', 'Ihsan Cahyo Utomo'),
    -> (5,'LabSI', '4321', 'Praktikum Sistem Basis Data', 'Heru Setiya Nugraha'),
    -> (6,'J500', '4421', 'Sistem Basis Data', 'Helmi Imaduddin'),
    -> (7,'Jsem 3', '4521', 'PKN', 'Haryono Yuwono'),
    -> (8,'J500', '4421', 'Sistem Basis Data', 'Helmi Imaduddin'),
    -> (9,'Jsem 3', '4521', 'PKN', 'Haryono Yuwono'),
    -> (10,'J410', '4621', 'Rekayasa Perangkat Lunak', 'Yusuf Sulistyo Nugroho'),
    -> (11,'J310', '4721', 'Bahasa indonesia', 'Lusiana Pujiastuti'),
    -> (12,'J410', '4621', 'Rekayasa Perangkat Lunak', 'Yusuf Sulistyo Nugroho'),
    -> (13,'J310', '4721', 'Bahasa indonesia', 'Lusiana Pujiastuti'),
    -> (14,'J200', '4821', 'Kemuhammadiyahan', 'Yeti Dahliana'),
    -> (15,'Jsem 1', '4921', 'Algoritma Strukur Data', 'Husni Thamrin'),
    -> (16,'J200', '4821', 'Kemuhammadiyahan', 'Yeti Dahliana'),
    -> (17,'Jsem 2', '4921', 'Algoritma Strukur Data', 'Husni Thamrin'),
    -> (18,'Jsem 2', '41021', 'Jaringan Komputer', 'Fatah Yasin Al Irsyadi'),
    -> (19,'Jsem 1', '41021', 'Jaringan Komputer', 'Fatah Yasin Al Irsyadi'),
    -> (20,'LabKomp', '4121', 'Praktikum Algoritma Struktur Data', 'Dimas Aryo Anggoro');
Query OK, 20 rows affected (0.018 sec)
Records: 20  Duplicates: 0  Warnings: 0

MariaDB [dbuniversitas1]> select *from transaksi;
+----+---------+---------+-----------------------------------+------------------------+
| no | ruang   | kode_mk | nama_mk                           | nama_dosen             |
+----+---------+---------+-----------------------------------+------------------------+
|  1 | LabKom  |    4121 | Praktikum Algoritma Struktur Data | Dimas Aryo Anggoro     |
|  2 | LabRPL  |    4221 | Praktikum Jaringan Komputer       | Ihsan Cahyo Utomo      |
|  3 | LabSI   |    4321 | Praktikum Sistem Basis Data       | Heru Setiya Nugraha    |
|  4 | LabRPL  |    4221 | Praktikum Jaringan Komputer       | Ihsan Cahyo Utomo      |
|  5 | LabSI   |    4321 | Praktikum Sistem Basis Data       | Heru Setiya Nugraha    |
|  6 | J500    |    4421 | Sistem Basis Data                 | Helmi Imaduddin        |
|  7 | Jsem 3  |    4521 | PKN                               | Haryono Yuwono         |
|  8 | J500    |    4421 | Sistem Basis Data                 | Helmi Imaduddin        |
|  9 | Jsem 3  |    4521 | PKN                               | Haryono Yuwono         |
| 10 | J410    |    4621 | Rekayasa Perangkat Lunak          | Yusuf Sulistyo Nugroho |
| 11 | J310    |    4721 | Bahasa indonesia                  | Lusiana Pujiastuti     |
| 12 | J410    |    4621 | Rekayasa Perangkat Lunak          | Yusuf Sulistyo Nugroho |
| 13 | J310    |    4721 | Bahasa indonesia                  | Lusiana Pujiastuti     |
| 14 | J200    |    4821 | Kemuhammadiyahan                  | Yeti Dahliana          |
| 15 | Jsem 1  |    4921 | Algoritma Strukur Data            | Husni Thamrin          |
| 16 | J200    |    4821 | Kemuhammadiyahan                  | Yeti Dahliana          |
| 17 | Jsem 2  |    4921 | Algoritma Strukur Data            | Husni Thamrin          |
| 18 | Jsem 2  |   41021 | Jaringan Komputer                 | Fatah Yasin Al Irsyadi |
| 19 | Jsem 1  |   41021 | Jaringan Komputer                 | Fatah Yasin Al Irsyadi |
| 20 | LabKomp |    4121 | Praktikum Algoritma Struktur Data | Dimas Aryo Anggoro     |
+----+---------+---------+-----------------------------------+------------------------+
20 rows in set (0.000 sec)

MariaDB [dbuniversitas1]>
```