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Tugas 3 Praktikum Implementasi Basis Data

Tugas 1

A.Menambahkan Constraint pada setiap tabel

A. Primary Constraint

1. Tabel Jadwal

Query:

```
> ALTER TABLE `tbjadwal` ADD PRIMARY KEY(`id_jadwal`);
> DESC tbjadwal;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbjadwal;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| id_jadwal    | varchar(50) | NO   | PRI | NULL    |       |
| id_penumpang | varchar(50) | NO   |     | NULL    |       |
| id_tiket     | varchar(50) | NO   |     | NULL    |       |
| stasiun      | varchar(50) | NO   |     | NULL    |       |
| jam          | varchar(50) | NO   |     | NULL    |       |
| tanggal      | date        | NO   |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
6 rows in set (0.021 sec)
```

2. Tabel Kereta

Query:

```
> ALTER TABLE `tbkereta` ADD PRIMARY KEY(`id_kereta`);
> DESC tbkereta;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbkereta;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| id_kereta | varchar(50) | NO   | PRI | NULL    |       |
| id_jadwal | varchar(50) | NO   |     | NULL    |       |
| rute      | varchar(50) | NO   |     | NULL    |       |
| kursi     | varchar(50) | NO   |     | NULL    |       |
| gerbong   | varchar(50) | NO   |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
5 rows in set (0.046 sec)
```

3. Tabel Penumpang

Query:

```
> ALTER TABLE `tbpenumpang` ADD PRIMARY KEY(`id_penumpang`);
> DESC tbpenumpang;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbpenumpang;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| id_penumpang | int(9)       | NO   | PRI | NULL    |       |
| id_tiket     | int(9)       | NO   |     | NULL    |       |
| id_petugas   | int(9)       | NO   |     | NULL    |       |
| telepon      | int(9)       | NO   |     | NULL    |       |
| alamat       | varchar(100) | NO   |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
5 rows in set (0.044 sec)
```

4. Tabel Petugas

Query:

```
> ALTER TABLE `tbpetugas` ADD PRIMARY KEY(`id_petugas`);
> DESC tbpetugas;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbpetugas;
+------------+--------------+------+-----+---------+----------------+
| Field      | Type         | Null | Key | Default | Extra          |
+------------+--------------+------+-----+---------+----------------+
| id_petugas | int(9)       | NO   | PRI | NULL    | auto_increment |
| nama       | varchar(50)  | NO   |     | NULL    |                |
| telepon    | int(9)       | NO   |     | NULL    |                |
| alamat     | varchar(100) | NO   |     | NULL    |                |
+------------+--------------+------+-----+---------+----------------+
4 rows in set (0.027 sec)
```

Note: type pada telepon saya ubah dari int (9) ke varchar(50)

5. Tabel Tiket

Query:

```
> ALTER TABLE `tbtiket` ADD PRIMARY KEY(`id_tiket`);
> DESC tbtiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbtiket;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| id_tiket | varchar(50) | NO   | PRI | NULL    |       |
| jumlah   | varchar(50) | NO   |     | NULL    |       |
| harga    | varchar(50) | NO   |     | NULL    |       |
| jenis    | varchar(50) | NO   |     | NULL    |       |
| tujuan   | varchar(50) | NO   |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
5 rows in set (0.049 sec)
```

B. Unique Constraint

1. Tabel Jadwal

Query:

```
> ALTER TABLE `tbjadwal` ADD UNIQUE(`id_penumpang`);
> DESC tbjadwal;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbjadwal;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| id_jadwal    | varchar(50) | NO   | PRI | NULL    |       |
| id_penumpang | varchar(50) | NO   | UNI | NULL    |       |
| id_tiket     | varchar(50) | NO   | MUL | NULL    |       |
| stasiun      | varchar(50) | NO   |     | NULL    |       |
| jam          | varchar(50) | NO   |     | NULL    |       |
| tanggal      | date        | NO   |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
6 rows in set (0.041 sec)
```

2. Tabel Kereta

Query:

```
> ALTER TABLE `tbkereta` ADD UNIQUE(`id_jadwal`);
> DESC tbkereta;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbkereta;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| id_kereta | varchar(50) | NO   | PRI | NULL    |       |
| id_jadwal | varchar(50) | NO   | UNI | NULL    |       |
| rute      | varchar(50) | NO   |     | NULL    |       |
| kursi     | varchar(50) | NO   |     | NULL    |       |
| gerbong   | varchar(50) | NO   |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
5 rows in set (0.037 sec)
```

3. Tabel Penumpang

Query:

```
> ALTER TABLE `tbpenumpang` ADD UNIQUE(`telepon`);
> DESC tbpenumpang;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbpenumpang;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| id_penumpang | varchar(50)  | NO   | PRI | NULL    |       |
| id_tiket     | varchar(50)  | NO   | MUL | NULL    |       |
| id_petugas   | int(9)       | NO   | MUL | NULL    |       |
| telepon      | varchar(50)  | NO   | UNI | NULL    |       |
| alamat       | varchar(100) | NO   |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
5 rows in set (0.032 sec)
```

4. Tabel Petugas

Query:

```
> ALTER TABLE `tbpetugas` ADD UNIQUE(`nama`);
> DESC tbpetugas;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbpetugas;
+------------+--------------+------+-----+---------+----------------+
| Field      | Type         | Null | Key | Default | Extra          |
+------------+--------------+------+-----+---------+----------------+
| id_petugas | int(9)       | NO   | PRI | NULL    | auto_increment |
| nama       | varchar(50)  | NO   | UNI | NULL    |                |
| telepon    | varchar(50)  | NO   |     | NULL    |                |
| alamat     | varchar(100) | NO   |     | NULL    |                |
+------------+--------------+------+-----+---------+----------------+
4 rows in set (0.028 sec)
```

5. Tabel Tiket

Query:

```
> ALTER TABLE `tbtiket` ADD UNIQUE('id_tiket`);
> DESC tbtiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbtiket;
+----------+-------------+------+-----+------------+-------+
| Field    | Type        | Null | Key | Default    | Extra |
+----------+-------------+------+-----+------------+-------+
| id_tiket | varchar(50) | NO   | PRI | NULL       |       |
| jumlah   | varchar(50) | NO   |     | NULL       |       |
| harga    | varchar(50) | NO   |     | NULL       |       |
| jenis    | varchar(50) | NO   |     | NULL       |       |
| tujuan   | varchar(50) | NO   |     | yogyakarta |       |
+----------+-------------+------+-----+------------+-------+
5 rows in set (0.029 sec)
```

C. Foreign Key Constraint

1. Tabel Jadwal (id_penumpang)

Query:

```
> ALTER TABLE 'tbjadwal' ADD FOREIGN KEY ('id_penumpang') REFERENCES
'tbpenumpang'('id_penumpang');
> DESC tbjadwal;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbjadwal;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| id_jadwal    | varchar(50) | NO   | PRI | NULL    |       |
| id_penumpang | varchar(50) | NO   | MUL | NULL    |       |
| id_tiket     | varchar(50) | NO   | MUL | NULL    |       |
| stasiun      | varchar(50) | NO   |     | NULL    |       |
| jam          | varchar(50) | NO   |     | NULL    |       |
| tanggal      | date        | NO   |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
6 rows in set (0.037 sec)
```

2. Tabel Jadwal (id_tiket)

Query:

```
> ALTER TABLE `tbjadwal` ADD FOREIGN KEY (`id_tiket`) REFERENCES
`tbtiket`(`id_tiket`);
> DESC tbjadwal;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbjadwal;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| id_jadwal    | varchar(50) | NO   | PRI | NULL    |       |
| id_penumpang | varchar(50) | NO   | MUL | NULL    |       |
| id_tiket     | varchar(50) | NO   | MUL | NULL    |       |
| stasiun      | varchar(50) | NO   |     | NULL    |       |
| jam          | varchar(50) | NO   |     | NULL    |       |
| tanggal      | date        | NO   |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
6 rows in set (0.037 sec)
```

3. Tabel Penumpang (id_tiket)

Query:

```
> ALTER TABLE `tbpenumpang` ADD FOREIGN KEY (`id_tiket`) REFERENCES
`tbtiket`(`id_tiket`);
> DESC tbpenumpang;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbpenumpang;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| id_penumpang | varchar(50)  | NO   | PRI | NULL    |       |
| id_tiket     | varchar(50)  | NO   | MUL | NULL    |       |
| id_petugas   | int(9)       | NO   | MUL | NULL    |       |
| telepon      | varchar(50)  | NO   |     | NULL    |       |
| alamat       | varchar(100) | NO   |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
5 rows in set (0.041 sec)
```

4. Tabel Penumpang (id_petugas)

Query:

```
> ALTER TABLE `tbpenumpang` ADD FOREIGN KEY (`id_petugas`) REFERENCES
`tbpetugas`(`id_petugas`);
> DESC tbpenumpang;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbpenumpang;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| id_penumpang | varchar(50)  | NO   | PRI | NULL    |       |
| id_tiket     | varchar(50)  | NO   | MUL | NULL    |       |
| id_petugas   | int(9)       | NO   | MUL | NULL    |       |
| telepon      | varchar(50)  | NO   |     | NULL    |       |
| alamat       | varchar(100) | NO   |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
5 rows in set (0.041 sec)
```

5. Tabel Kereta (id_jadwal)

Query:

```
> ALTER TABLE `tbkereta` ADD FOREIGN KEY (`id_jadwal`) REFERENCES
`tbjadwal`(`id_jadwal`);
> DESC tbkereta;
```

Hasil Query:

```
MariaDB [db_stasiun]> desc tbkereta;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| id_kereta | varchar(50) | NO   | PRI | NULL    |       |
| id_jadwal | varchar(50) | NO   | MUL | NULL    |       |
| rute      | varchar(50) | NO   |     | NULL    |       |
| kursi     | varchar(50) | NO   |     | NULL    |       |
| gerbong   | varchar(50) | NO   |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
5 rows in set (0.031 sec)
```

D. Check Constraint

1. Tabel Jadwal

   Query:

```
> ALTER TABLE tbjadwal ADD CONSTRAINT id_jadwal
CHECK(char_length(id_jadwal)>9);
> SELECT * FROM tbjadwal;
```

   Hasil Query:

```
MariaDB [db_stasiun]> select*from tbjadwal;
+-----------+-------------+-----------+-------------+-------+-----------+
| id_jadwal | id_penumpang | id_tiket  | stasiun     | jam   | tanggal   |
+-----------+-------------+-----------+-------------+-------+-----------+
| 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912351 | 123240240   | 123456795 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912352 | 123240241   | 123456796 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912353 | 123240242   | 123456797 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912354 | 123240243   | 123456798 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912355 | 123240244   | 123456799 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912356 | 123240245   | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912357 | 123240246   | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912358 | 123240247   | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912359 | 123240248   | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 |
+-----------+-------------+-----------+-------------+-------+-----------+
15 rows in set (0.003 sec)
```

2. Tabel Kereta

Query:

```
> ALTER TABLE tbkereta ADD CONSTRAINT kursi CHECK(char_length(kursi)>50);
> SELECT * FROM tbkereta;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbkereta;
+-----------+-----------+-------------+-------+---------+
| id_kereta | id_jadwal | rute        | kursi | gerbong |
+-----------+-----------+-------------+-------+---------+
| 987654321 | 678912345 | stasiun tugu | 1     | 1       |
| 987654322 | 678912346 | stasiun tugu | 2     | 1       |
| 987654323 | 678912347 | stasiun tugu | 3     | 1       |
| 987654324 | 678912348 | stasiun tugu | 4     | 1       |
| 987654325 | 678912349 | stasiun tugu | 5     | 1       |
| 987654326 | 678912350 | stasiun tugu | 6     | 1       |
| 987654327 | 678912351 | stasiun tugu | 7     | 1       |
| 987654328 | 678912352 | stasiun tugu | 8     | 1       |
| 987654329 | 678912353 | stasiun tugu | 9     | 1       |
| 987654330 | 678912354 | stasiun tugu | 10    | 1       |
| 987654331 | 678912355 | stasiun tugu | 11    | 1       |
| 987654332 | 678912356 | stasiun tugu | 12    | 1       |
| 987654333 | 678912357 | stasiun tugu | 13    | 1       |
| 987654334 | 678912358 | stasiun tugu | 14    | 1       |
| 987654335 | 678912359 | stasiun tugu | 15    | 1       |
+-----------+-----------+-------------+-------+---------+
15 rows in set (0.002 sec)
```

3. Tabel Penumpang

Query:

```
> ALTER TABLE tbpenumpang ADD CONSTRAINT alamat
CHECK(char_length(alamat)>70);
> SELECT * FROM tbpenumpang;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbpenumpang;
+--------------+------------+------------+----------+-----------------------+
| id_penumpang | id_tiket   | id_petugas | telepon  | alamat                |
+--------------+------------+------------+----------+-----------------------+
| 123240234    | 123456789  |   20304050 | 85123456 | jalan jayamahe no 7   |
| 123240235    | 123456790  |   20304051 | 81234765 | jalan puncak no 3     |
| 123240236    | 123456791  |   20304052 | 85543678 | jalan teladan no 1    |
| 123240237    | 123456792  |   20304053 | 81876456 | jalan prestasi no 4   |
| 123240238    | 123456793  |   20304054 | 87534678 | jalan perjuangan no 2 |
| 123240239    | 123456794  |   20304055 | 80765980 | jalan babarsari no 1  |
| 123240240    | 123456795  |   20304056 | 89065431 | jalan gembira no 10   |
| 123240241    | 123456796  |   20304057 | 82534980 | jalan veteran no 13   |
| 123240242    | 123456797  |   20304058 | 83021876 | Jalan Proklamasi no 9 |
| 123240243    | 123456798  |   20304059 | 87531680 | jalan mawar no 18     |
| 123240244    | 123456799  |   20304060 | 86908654 | jalan biru no 3       |
| 123240245    | 1234567100 |   20304061 | 80152739 | jalan teknik no 4     |
| 123240246    | 1234567101 |   20304062 | 86014653 | jalan janti no 15     |
| 123240247    | 1234567102 |   20304063 | 88153842 | jalan cempaka no 17   |
| 123240248    | 1234567103 |   20304064 | 83157856 | jalan hore no 8
     |
+--------------+------------+------------+----------+-----------------------+
15 rows in set (0.002 sec)
```

4. Tabel Petugas

Query:

```
> ALTER TABLE tbpetugas ADD CONSTRAINT nama
CHECK(char_length(nama)>20);
> SELECT * FROM tbpetugas;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbpetugas;
+------------+--------+----------+-----------------------+
| id_petugas | nama   | telepon  | alamat                |
+------------+--------+----------+-----------------------+
|   20304050 | alip   | 85123456 | jalan jayamahe no 7   |
|   20304051 | ipah   | 81234765 | jalan puncak no 3     |
|   20304052 | ali    | 85543678 | jalan teladan no 1    |
|   20304053 | irul   | 81876456 | jalan prestasi no 4   |
|   20304054 | anwar  | 87534678 | jalan perjuangan no 2 |
|   20304055 | iva    | 80765980 | jalan babarsari no 1  |
|   20304056 | karin  | 89065431 | jalan gembira no 10   |
|   20304057 | vania  | 82534980 | jalan vateran no 13   |
|   20304058 | alsa   | 83021876 | jalan proklamasi no 9 |
|   20304059 | nahdia | 87531680 | jalan mawar no 18     |
|   20304060 | dhera  | 86908654 | jalan biru no 3       |
|   20304061 | puput  | 80152739 | jalan teknik no 4     |
|   20304062 | salsa  | 86014653 | jalan janti no 15     |
|   20304063 | jelita | 88153842 | jalan cempaka no 17   |
|   20304064 | vana   | 83157856 | jalan hore no 8       |
+------------+--------+----------+-----------------------+
15 rows in set (0.001 sec)
```

5. Tabel Tiket

Query:

```
> ALTER TABLE tbtiket ADD CONSTRAINT jumlah CHECK(char_length(jumlah)>0);
> SELECT * FROM tbtiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbtiket;
+-----------+--------+-------+----------+-----------+
| id_tiket  | jumlah | harga | jenis    | tujuan    |
+-----------+--------+-------+----------+-----------+
| 123456789 | 1      | 50000 | reguler  | yogyakarta |
| 123456790 | 1      | 50000 | reguler  | yogyajarta |
| 123456791 | 1      | 30000 | ekonomi  | yogyakarta |
| 123456792 | 1      | 70000 | eksklusif | yogyakarta |
| 123456793 | 1      | 30000 | ekonomi  | yogyakarta |
+-----------+--------+-------+----------+-----------+
5 rows in set (0.002 sec)
```

E. Default Constraint

1. Tabel Jadwal

Query:

```
> ALTER TABLE tbjadwal ALTER tujuan SET DEFAULT 'stasiun tugu';
> SELECT * FROM tbjadwal;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbjadwal;
+-----------+--------------+------------+--------------+-------+------------+
| id_jadwal | id_penumpang | id_tiket   | stasiun      | jam   | tanggal    |
+-----------+--------------+------------+--------------+-------+------------+
| 678912345 | 123240234    | 123456789  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912346 | 123240235    | 123456790  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912347 | 123240236    | 123456791  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912348 | 123240237    | 123456792  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912349 | 123240238    | 123456793  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912350 | 123240239    | 123456794  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912351 | 123240240    | 123456795  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912352 | 123240241    | 123456796  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912353 | 123240242    | 123456797  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912354 | 123240243    | 123456798  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912355 | 123240244    | 123456799  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912356 | 123240245    | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912357 | 123240246    | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912358 | 123240247    | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912359 | 123240248    | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 |
+-----------+--------------+------------+--------------+-------+------------+
15 rows in set (0.001 sec)
```

2. Tabel Kereta

Query:

```
> ALTER TABLE tbkereta ALTER rute SET DEFAULT 'stasiun tugu';
> SELECT * FROM tbkereta;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbjadwal;
+-----------+--------------+------------+--------------+-------+------------+
| id_jadwal | id_penumpang | id_tiket   | stasiun      | jam   | tanggal    |
+-----------+--------------+------------+--------------+-------+------------+
| 678912345 | 123240234    | 123456789  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912346 | 123240235    | 123456790  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912347 | 123240236    | 123456791  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912348 | 123240237    | 123456792  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912349 | 123240238    | 123456793  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912350 | 123240239    | 123456794  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912351 | 123240240    | 123456795  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912352 | 123240241    | 123456796  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912353 | 123240242    | 123456797  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912354 | 123240243    | 123456798  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912355 | 123240244    | 123456799  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912356 | 123240245    | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912357 | 123240246    | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912358 | 123240247    | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912359 | 123240248    | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 |
+-----------+--------------+------------+--------------+-------+------------+
15 rows in set (0.001 sec)
```

3. Tabel Penumpang

Query:

```
> ALTER TABLE tbpenumpang ALTER telepon SET DEFAULT '00000000';
> SELECT * FROM tbpenumpang;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbpenumpang;
+--------------+------------+------------+----------+----------------------+
| id_penumpang | id_tiket   | id_petugas | telepon  | alamat               |
+--------------+------------+------------+----------+----------------------+
| 123240234    | 123456789  |   20304050 | 85123456 | jalan jayamahe no 7  |
| 123240235    | 123456790  |   20304051 | 81234765 | jalan puncak no 3    |
| 123240236    | 123456791  |   20304052 | 85543678 | jalan teladan no 1   |
| 123240237    | 123456792  |   20304053 | 81876456 | jalan prestasi no 4  |
| 123240238    | 123456793  |   20304054 | 87534678 | jalan perjuangan no 2 |
| 123240239    | 123456794  |   20304055 | 80765980 | jalan babarsari no 1 |
| 123240240    | 123456795  |   20304056 | 89065431 | jalan gembira no 10  |
| 123240241    | 123456796  |   20304057 | 82534980 | jalan veteran no 13  |
| 123240242    | 123456797  |   20304058 | 83021876 | Jalan Proklamasi no 9 |
| 123240243    | 123456798  |   20304059 | 87531680 | jalan mawar no 18    |
| 123240244    | 123456799  |   20304060 | 86908654 | jalan biru no 3      |
| 123240245    | 1234567100 |   20304061 | 80152739 | jalan teknik no 4    |
| 123240246    | 1234567101 |   20304062 | 86014653 | jalan janti no 15    |
| 123240247    | 1234567102 |   20304063 | 88153842 | jalan cempaka no 17  |
| 123240248    | 1234567103 |   20304064 | 83157856 | jalan hore no 8      |
+--------------+------------+------------+----------+----------------------+
15 rows in set (0.001 sec)
```

4. Tabel Petugas

Query:

```
> ALTER TABLE tbpetugasMALTER telepon SET DEFAULT '00000000';
> SELECT * FROM tbpetugas;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbpetugas;
+------------+--------+----------+----------------------+
| id_petugas | nama   | telepon  | alamat               |
+------------+--------+----------+----------------------+
|   20304050 | alip   | 85123456 | jalan jayamahe no 7  |
|   20304051 | ipah   | 81234765 | jalan puncak no 3    |
|   20304052 | ali    | 85543678 | jalan teladan no 1   |
|   20304053 | irul   | 81876456 | jalan prestasi no 4  |
|   20304054 | anwar  | 87534678 | jalan perjuangan no 2 |
|   20304055 | iva    | 80765980 | jalan babarsari no 1 |
|   20304056 | karin  | 89065431 | jalan gembira no 10  |
|   20304057 | vania  | 82534980 | jalan vateran no 13  |
|   20304058 | alsa   | 83021876 | jalan proklamasi no 9 |
|   20304059 | nahdia | 87531680 | jalan mawar no 18    |
|   20304060 | dhera  | 86908654 | jalan biru no 3      |
|   20304061 | puput  | 80152739 | jalan teknik no 4    |
|   20304062 | salsa  | 86014653 | jalan janti no 15    |
|   20304063 | jelita | 88153842 | jalan cempaka no 17  |
|   20304064 | vana   | 83157856 | jalan hore no 8      |
+------------+--------+----------+----------------------+
15 rows in set (0.001 sec)
```

5. Tabel Tiket

Query:

```
> ALTER TABLE tbtiket ALTER tujuan SET DEFAULT 'yogyakarta';
> SELECT * FROM tbtiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbtiket;
+-----------+--------+-------+-----------+-----------+
| id_tiket  | jumlah | harga | jenis     | tujuan    |
+-----------+--------+-------+-----------+-----------+
| 123456789 | 1      | 50000 | reguler   | yogyakarta |
| 123456790 | 1      | 50000 | reguler   | yogyakarta |
| 123456791 | 1      | 30000 | ekonomi   | yogyakarta |
| 123456792 | 1      | 70000 | eksklusif | yogyakarta |
| 123456793 | 1      | 30000 | ekonomi   | yogyakarta |
+-----------+--------+-------+-----------+-----------+
5 rows in set (0.001 sec)
```

B. Insert minimal 10 data

1. Tabel Jadwal

Query:

```
> INSERT INTO tbjadwal (id_jadwal, id_penumpang, id_tiket, stasiun, jam,
tanggal)VALUES
    (678912345, 123240234, 123456789, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912346, 123240235, 123456790, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912347, 123240236, 123456791, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912348, 123240237, 123456792, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912349, 123240238, 123456793, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912350, 123240239, 123456794, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912351, 123240240, 123456795, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912352, 123240241, 123456796, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912353, 123240242, 123456797, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912354, 123240243, 123456798, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912355, 123240244, 123456799, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912356, 123240245, 1234567100, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912357, 123240246, 1234567101, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912358, 123240247, 1234567102, 'stasiun tugu', '06:00', '2024-11-24'),
    (678912359, 123240248, 1234567103, 'stasiun tugu', '06:00', '2024-11-24');
> SELECT * FROM tbjadwal;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbjadwal;
+-----------+--------------+------------+--------------+-------+------------+
| id_jadwal | id_penumpang | id_tiket   | stasiun      | jam   | tanggal    |
+-----------+--------------+------------+--------------+-------+------------+
| 678912345 | 123240234    | 123456789  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912346 | 123240235    | 123456790  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912347 | 123240236    | 123456791  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912348 | 123240237    | 123456792  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912349 | 123240238    | 123456793  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912350 | 123240239    | 123456794  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912351 | 123240240    | 123456795  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912352 | 123240241    | 123456796  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912353 | 123240242    | 123456797  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912354 | 123240243    | 123456798  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912355 | 123240244    | 123456799  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912356 | 123240245    | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912357 | 123240246    | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912358 | 123240247    | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912359 | 123240248    | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 |
+-----------+--------------+------------+--------------+-------+------------+
15 rows in set (0.001 sec)
```

2. abel Kereta

Query:

```
> INSERT INTO tbkereta (id_kereta, id_jadwal, rute, kursi, gerbong)VALUES
    (987654321, 678912345, 'stasiun tugu', 1, 1),
    (987654322, 678912346, 'stasiun tugu', 2, 1),
    (987654323, 678912347, 'stasiun tugu', 3, 1),
    (987654324, 678912348, 'stasiun tugu', 4, 1),
    (987654325, 678912349, 'stasiun tugu', 5, 1),
    (987654326, 678912350, 'stasiun tugu', 6, 1),
    (987654327, 678912351, 'stasiun tugu', 7, 1),
    (987654328, 678912352, 'stasiun tugu', 8, 1),
    (987654329, 678912353, 'stasiun tugu', 9, 1),
    (987654330, 678912354, 'stasiun tugu', 10, 1),
    (987654331, 678912355, 'stasiun tugu', 11, 1),
```

```
    (987654332, 678912356, 'stasiun tugu', 12, 1),
    (987654333, 678912357, 'stasiun tugu', 13, 1),
    (987654334, 678912358, 'stasiun tugu', 14, 1),
    (987654335, 678912359, 'stasiun tugu', 15, 1);
> SELECT * FROM tbkereta;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbkereta;
+-----------+-----------+--------------+-------+---------+
| id_kereta | id_jadwal | rute         | kursi | gerbong |
+-----------+-----------+--------------+-------+---------+
| 987654321 | 678912345 | stasiun tugu | 1     | 1       |
| 987654322 | 678912346 | stasiun tugu | 2     | 1       |
| 987654323 | 678912347 | stasiun tugu | 3     | 1       |
| 987654324 | 678912348 | stasiun tugu | 4     | 1       |
| 987654325 | 678912349 | stasiun tugu | 5     | 1       |
| 987654326 | 678912350 | stasiun tugu | 6     | 1       |
| 987654327 | 678912351 | stasiun tugu | 7     | 1       |
| 987654328 | 678912352 | stasiun tugu | 8     | 1       |
| 987654329 | 678912353 | stasiun tugu | 9     | 1       |
| 987654330 | 678912354 | stasiun tugu | 10    | 1       |
| 987654331 | 678912355 | stasiun tugu | 11    | 1       |
| 987654332 | 678912356 | stasiun tugu | 12    | 1       |
| 987654333 | 678912357 | stasiun tugu | 13    | 1       |
| 987654334 | 678912358 | stasiun tugu | 14    | 1       |
| 987654335 | 678912359 | stasiun tugu | 15    | 1       |
+-----------+-----------+--------------+-------+---------+
15 rows in set (0.000 sec)
```

3. Tabel Penumpang

Query:

```
> INSERT INTO tbpenumpang (id_penumpang, id_tiket, id_petugas, telepon,
alamat)VALUES
    (123240234, 123456789, 20304050, '85123456', 'jalan jayamahe no 7'),
    (123240235, 123456790, 20304051, '81234765', 'jalan puncak no 3'),
    (123240236, 123456791, 20304052, '85543678', 'jalan teladan no 1'),
    (123240237, 123456792, 20304053, '81876456', 'jalan prestasi no 4'),
    (123240238, 123456793, 20304054, '87534678', 'jalan perjuangan no 2'),
    (123240239, 123456794, 20304055, '80765980', 'jalan babarsari no 1'),
    (123240240, 123456795, 20304056, '89065431', 'jalan gembira no 10'),
    (123240241, 123456796, 20304057, '82534980', 'jalan veteran no 13'),
    (123240242, 123456797, 20304058, '83021876', 'Jalan Proklamasi no 9'),
    (123240243, 123456798, 20304059, '87531680', 'jalan mawar no 18'),
    (123240244, 123456799, 20304060, '86908654', 'jalan biru no 3'),
    (123240245, 1234567100, 20304061, '80152739', 'jalan teknik no 4'),
    (123240246, 1234567101, 20304062, '86014653', 'jalan janti no 15'),
    (123240247, 1234567102, 20304063, '88153842', 'jalan cempaka no 17'),
    (123240248, 1234567103, 20304064, '83157856', 'jalan hore no 8');
> SELECT * FROM tbpenumpang;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbpenumpang;
+--------------+------------+------------+----------+----------------------+
| id_penumpang | id_tiket   | id_petugas | telepon  | alamat               |
+--------------+------------+------------+----------+----------------------+
| 123240234    | 123456789  |   20304050 | 85123456 | jalan jayamahe no 7  |
| 123240235    | 123456790  |   20304051 | 81234765 | jalan puncak no 3    |
| 123240236    | 123456791  |   20304052 | 85543678 | jalan teladan no 1   |
| 123240237    | 123456792  |   20304053 | 81876456 | jalan prestasi no 4  |
| 123240238    | 123456793  |   20304054 | 87534678 | jalan perjuangan no 2 |
| 123240239    | 123456794  |   20304055 | 80765980 | jalan babarsari no 1 |
| 123240240    | 123456795  |   20304056 | 89065431 | jalan gembira no 10  |
| 123240241    | 123456796  |   20304057 | 82534980 | jalan veteran no 13  |
| 123240242    | 123456797  |   20304058 | 83021876 | Jalan Proklamasi no 9 |
| 123240243    | 123456798  |   20304059 | 87531680 | jalan mawar no 18    |
| 123240244    | 123456799  |   20304060 | 86908654 | jalan biru no 3      |
| 123240245    | 1234567100 |   20304061 | 80152739 | jalan teknik no 4    |
| 123240246    | 1234567101 |   20304062 | 86014653 | jalan janti no 15    |
| 123240247    | 1234567102 |   20304063 | 88153842 | jalan cempaka no 17  |
| 123240248    | 1234567103 |   20304064 | 83157856 | jalan hore no 8
     |
+--------------+------------+------------+----------+----------------------+
15 rows in set (0.001 sec)
```

4. Tabel Petugas

Query:

```
> INSERT INTO tabel_petugas (id_petugas, nama, telepon, alamat)VALUES
    (20304050, 'alip', '85123456', 'jalan jayamahe no 7'),
    (20304051, 'ipah', '81234765', 'jalan puncak no 3'),
    (20304052, 'ali', '85543678', 'jalan teladan no 1'),
    (20304053, 'irul', '81876456', 'jalan prestasi no 4'),
    (20304054, 'anwar', '87534678', 'jalan perjuangan no 2'),
    (20304055, 'iva', '80765980', 'jalan babarsari no 1'),
    (20304056, 'karin', '89065431', 'jalan gembira no 10'),
    (20304057, 'vania', '82534980', 'jalan veteran no 13'),
    (20304058, 'alsa', '83021876', 'jalan proklamasi no 9'),
    (20304059, 'nahdia', '87531680', 'jalan mawar no 18'),
    (20304060, 'dhera', '86908654', 'jalan biru no 3'),
    (20304061, 'puput', '80152739', 'jalan teknik no 4'),
    (20304062, 'salsa', '86014653', 'jalan janti no 15'),
    (20304063, 'jelita', '88153842', 'jalan cempaka no 17'),
    (20304064, 'vana', '83157856', 'jalan hore no 8');
> SELECT * FROM tbpetugas;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbpetugas;
+------------+--------+----------+-----------------------+
| id_petugas | nama   | telepon  | alamat                |
+------------+--------+----------+-----------------------+
|   20304050 | alip   | 85123456 | jalan jayamahe no 7   |
|   20304051 | ipah   | 81234765 | jalan puncak no 3     |
|   20304052 | ali    | 85543678 | jalan teladan no 1    |
|   20304053 | irul   | 81876456 | jalan prestasi no 4   |
|   20304054 | anwar  | 87534678 | jalan perjuangan no 2 |
|   20304055 | iva    | 80765980 | jalan babarsari no 1  |
|   20304056 | karin  | 89065431 | jalan gembira no 10   |
|   20304057 | vania  | 82534980 | jalan vateran no 13   |
|   20304058 | alsa   | 83021876 | jalan proklamasi no 9 |
|   20304059 | nahdia | 87531680 | jalan mawar no 18     |
|   20304060 | dhera  | 86908654 | jalan biru no 3       |
|   20304061 | puput  | 80152739 | jalan teknik no 4     |
|   20304062 | salsa  | 86014653 | jalan janti no 15     |
|   20304063 | jelita | 88153842 | jalan cempaka no 17   |
|   20304064 | vana   | 83157856 | jalan hore no 8       |
+------------+--------+----------+-----------------------+
15 rows in set (0.001 sec)
```

5. Tabel Tiket

Query:

```
> INSERT INTO tbtiket (id_tiket, jumlah, harga, jenis, tujuan)VALUES
    (1234567100, 1, 30000, 'ekonomi', 'yogyakarta'),
    (1234567101, 1, 70000, 'eksklusif', 'yogyakarta'),
    (1234567102, 1, 30000, 'ekonomi', 'yogyakarta'),
    (1234567103, 1, 50000, 'reguler', 'yogyakarta'),
    (123456789, 1, 50000, 'reguler', 'yogyakarta'),
    (123456790, 1, 50000, 'reguler', 'yogyakarta'),
    (123456791, 1, 30000, 'ekonomi', 'yogyakarta'),
    (123456792, 1, 70000, 'eksklusif', 'yogyakarta'),
    (123456793, 1, 30000, 'ekonomi', 'yogyakarta'),
    (123456794, 1, 50000, 'reguler', 'yogyakarta'),
    (123456795, 1, 50000, 'reguler', 'yogyakarta'),
    (123456796, 1, 70000, 'eksklusif', 'yogyakarta'),
    (123456797, 1, 30000, 'ekonomi', 'yogyakarta'),
    (123456798, 1, 30000, 'ekonomi', 'yogyakarta'),
    (123456799, 1, 50000, 'reguler', 'yogyakarta');
> SELECT * FROM tbtiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbtiket;
+------------+--------+-------+-----------+------------+
| id_tiket   | jumlah | harga | jenis     | tujuan     |
+------------+--------+-------+-----------+------------+
| 1234567100 | 1      | 30000 | ekonomi   | yogyakarta |
| 1234567101 | 1      | 70000 | eksklusif | yogyakarta |
| 1234567102 | 1      | 30000 | ekonomi   | yogyakarta |
| 1234567103 | 1      | 50000 | reguler   | yogyakarta |
| 123456789  | 1      | 50000 | reguler   | yogyakarta |
| 123456790  | 1      | 50000 | reguler   | yogyakarta |
| 123456791  | 1      | 30000 | ekonomi   | yogyakarta |
| 123456792  | 1      | 70000 | eksklusif | yogyakarta |
| 123456793  | 1      | 30000 | ekonomi   | yogyakarta |
| 123456794  | 1      | 50000 | reguler   | yogyakarta |
| 123456795  | 1      | 50000 | reguler   | yogyakarta |
| 123456796  | 1      | 70000 | eksklusif | yogyakarta |
| 123456797  | 1      | 30000 | ekonomi   | yogyakarta |
| 123456798  | 1      | 30000 | ekonomi   | yogyakarta |
| 123456799  | 1      | 50000 | reguler   | yogyakarta |
+------------+--------+-------+-----------+------------+
15 rows in set (0.001 sec)
```

Tugas 2

Buatlah Perintah SQL untuk setiap tabel:

A. SQL WHERE

1. Tabel Jadwal

Query:

```
> SELECT * FROM tbjadwal WHERE jam = '06.00';
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbjadwal where jam = '06.00';
+-----------+--------------+------------+--------------+-------+------------+
| id_jadwal | id_penumpang | id_tiket   | stasiun      | jam   | tanggal    |
+-----------+--------------+------------+--------------+-------+------------+
| 678912345 | 123240234    | 123456789  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912346 | 123240235    | 123456790  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912347 | 123240236    | 123456791  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912348 | 123240237    | 123456792  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912349 | 123240238    | 123456793  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912350 | 123240239    | 123456794  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912351 | 123240240    | 123456795  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912352 | 123240241    | 123456796  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912353 | 123240242    | 123456797  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912354 | 123240243    | 123456798  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912355 | 123240244    | 123456799  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912356 | 123240245    | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912357 | 123240246    | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912358 | 123240247    | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912359 | 123240248    | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 |
+-----------+--------------+------------+--------------+-------+------------+
```

2. Tabel Kereta

Query:

```
> SELECT * FROM tbkereta WHERE kursi = '3';
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbkereta where kursi = '3';
+-----------+-----------+--------------+-------+---------+
| id_kereta | id_jadwal | rute         | kursi | gerbong |
+-----------+-----------+--------------+-------+---------+
| 987654323 | 678912347 | stasiun tugu | 3     | 1       |
+-----------+-----------+--------------+-------+---------+
1 row in set (0.001 sec)
```

3. Tabel Penumpang

Query:

```
> SELECT * FROM tbpenumpang WHERE alamat = 'jalan teladan no 1';
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbpenumpang where alamat = 'jalan teladan no 1';
+-------------+----------+-----------+---------+-------------------+
| id_penumpang | id_tiket | id_petugas | telepon | alamat            |
+-------------+----------+-----------+---------+-------------------+
| 123240236   | 123456791 |   20304052 | 85543678 | jalan teladan no 1 |
+-------------+----------+-----------+---------+-------------------+
1 row in set (0.001 sec)
```

4. Tabel Petugas

Query:

```
> SELECT * FROM tbpetugas  WHERE nama = 'alip';
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbpetugas where nama = 'alip';
+-----------+------+----------+---------------------+
| id_petugas | nama | telepon  | alamat              |
+-----------+------+----------+---------------------+
|   20304050 | alip | 85123456 | jalan jayamahe no 7 |
+-----------+------+----------+---------------------+
1 row in set (0.001 sec)
```

5. Tabel Tiket

Query:

```
> SELECT * FROM tbtiket WHERE jenis = 'reguler';
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbtiket where jenis = 'reguler';
+------------+--------+-------+---------+------------+
| id_tiket   | jumlah | harga | jenis   | tujuan     |
+------------+--------+-------+---------+------------+
| 1234567103 | 1      | 50000 | reguler | yogyakarta |
| 123456789  | 1      | 50000 | reguler | yogyakarta |
| 123456790  | 1      | 50000 | reguler | yogyakarta |
| 123456794  | 1      | 50000 | reguler | yogyakarta |
| 123456795  | 1      | 50000 | reguler | yogyakarta |
| 123456799  | 1      | 50000 | reguler | yogyakarta |
+------------+--------+-------+---------+------------+
6 rows in set (0.001 sec)
```

B. SQL AND/OR/NOT

1.1 Tabel Jadwal (and)

Query:

```
> SELECT * FROM tbjadwal WHERE stasiun = 'stasiun tugu' AND tanggal =
'2024-11-24';
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbjadwal WHERE stasiun = 'stasiun tugu' AND tanggal = '2024-11-24';
+-----------+-------------+------------+--------------+-------+------------+
| id_jadwal | id_penumpang | id_tiket   | stasiun      | jam   | tanggal    |
+-----------+-------------+------------+--------------+-------+------------+
| 678912345 | 123240234   | 123456789  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912346 | 123240235   | 123456790  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912347 | 123240236   | 123456791  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912348 | 123240237   | 123456792  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912349 | 123240238   | 123456793  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912350 | 123240239   | 123456794  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912351 | 123240240   | 123456795  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912352 | 123240241   | 123456796  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912353 | 123240242   | 123456797  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912354 | 123240243   | 123456798  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912355 | 123240244   | 123456799  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912356 | 123240245   | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912357 | 123240246   | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912358 | 123240247   | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912359 | 123240248   | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 |
+-----------+-------------+------------+--------------+-------+------------+
15 rows in set (0.001 sec)
```

1.2 Tabel Jadwal (or)

Query:

```
> SELECT * FROM tbjadwal WHERE stasiun = 'stasiun tugu' OR tanggal =
'2024-11-24' OR jam = '06:00';
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT *
    -> FROM tbjadwal
    -> WHERE stasiun = 'stasiun tugu'
    ->   OR tanggal = '2024-11-24'
    ->   OR jam = '06:00';
+-----------+--------------+------------+--------------+-------+------------+
| id_jadwal | id_penumpang | id_tiket   | stasiun      | jam   | tanggal    |
+-----------+--------------+------------+--------------+-------+------------+
| 678912345 | 123240234    | 123456789  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912346 | 123240235    | 123456790  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912347 | 123240236    | 123456791  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912348 | 123240237    | 123456792  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912349 | 123240238    | 123456793  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912350 | 123240239    | 123456794  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912351 | 123240240    | 123456795  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912352 | 123240241    | 123456796  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912353 | 123240242    | 123456797  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912354 | 123240243    | 123456798  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912355 | 123240244    | 123456799  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912356 | 123240245    | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912357 | 123240246    | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912358 | 123240247    | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912359 | 123240248    | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 |
+-----------+--------------+------------+--------------+-------+------------+
15 rows in set (0.000 sec)
```

1.3 Tabel Jadwal (not)

Query:

```
> SELECT * FROM tbjadwal WHERE NOT id_tiket = '1234567100';
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbjadwal WHERE NOT id_tiket = '1234567100';
+-----------+--------------+------------+--------------+-------+------------+
| id_jadwal | id_penumpang | id_tiket   | stasiun      | jam   | tanggal    |
+-----------+--------------+------------+--------------+-------+------------+
| 678912345 | 123240234    | 123456789  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912346 | 123240235    | 123456790  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912347 | 123240236    | 123456791  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912348 | 123240237    | 123456792  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912349 | 123240238    | 123456793  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912350 | 123240239    | 123456794  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912351 | 123240240    | 123456795  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912352 | 123240241    | 123456796  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912353 | 123240242    | 123456797  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912354 | 123240243    | 123456798  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912355 | 123240244    | 123456799  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912357 | 123240246    | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912358 | 123240247    | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912359 | 123240248    | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 |
+-----------+--------------+------------+--------------+-------+------------+
14 rows in set (0.012 sec)
```

2.1 Tabel Kereta (and)

Query:

```
> SELECT * FROM tbkereta WHERE rute = 'stasiun tugu' AND kursi = 1 AND
gerbong = 1;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbkereta WHERE rute = 'stasiun tugu'
    ->   AND kursi = 1 AND gerbong = 1;
+-----------+-----------+--------------+-------+---------+
| id_kereta | id_jadwal | rute         | kursi | gerbong |
+-----------+-----------+--------------+-------+---------+
| 987654321 | 678912345 | stasiun tugu | 1     | 1       |
+-----------+-----------+--------------+-------+---------+
1 row in set (0.001 sec)
```

2.2 Tabel Kereta (or)

Query:

```
> SELECT * FROM tbkereta WHERE rute = 'stasiun tugu' OR kursi = 7;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbkereta WHERE rute = 'stasiun tugu' OR kursi = 7;
+-----------+-----------+--------------+-------+---------+
| id_kereta | id_jadwal | rute         | kursi | gerbong |
+-----------+-----------+--------------+-------+---------+
| 987654321 | 678912345 | stasiun tugu | 1     | 1       |
| 987654322 | 678912346 | stasiun tugu | 2     | 1       |
| 987654323 | 678912347 | stasiun tugu | 3     | 1       |
| 987654324 | 678912348 | stasiun tugu | 4     | 1       |
| 987654325 | 678912349 | stasiun tugu | 5     | 1       |
| 987654326 | 678912350 | stasiun tugu | 6     | 1       |
| 987654327 | 678912351 | stasiun tugu | 7     | 1       |
| 987654328 | 678912352 | stasiun tugu | 8     | 1       |
| 987654329 | 678912353 | stasiun tugu | 9     | 1       |
| 987654330 | 678912354 | stasiun tugu | 10    | 1       |
| 987654331 | 678912355 | stasiun tugu | 11    | 1       |
| 987654332 | 678912356 | stasiun tugu | 12    | 1       |
| 987654333 | 678912357 | stasiun tugu | 13    | 1       |
| 987654334 | 678912358 | stasiun tugu | 14    | 1       |
| 987654335 | 678912359 | stasiun tugu | 15    | 1       |
+-----------+-----------+--------------+-------+---------+
15 rows in set (0.001 sec)
```

2.3 Tabel Kereta (not)

Query:

```
> SELECT * FROM tbkereta WHERE NOT kurai = '13';
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbkereta WHERE NOT kursi = '13';
+-----------+-----------+--------------+-------+---------+
| id_kereta | id_jadwal | rute         | kursi | gerbong |
+-----------+-----------+--------------+-------+---------+
| 987654321 | 678912345 | stasiun tugu | 1     | 1       |
| 987654322 | 678912346 | stasiun tugu | 2     | 1       |
| 987654323 | 678912347 | stasiun tugu | 3     | 1       |
| 987654324 | 678912348 | stasiun tugu | 4     | 1       |
| 987654325 | 678912349 | stasiun tugu | 5     | 1       |
| 987654326 | 678912350 | stasiun tugu | 6     | 1       |
| 987654327 | 678912351 | stasiun tugu | 7     | 1       |
| 987654328 | 678912352 | stasiun tugu | 8     | 1       |
| 987654329 | 678912353 | stasiun tugu | 9     | 1       |
| 987654330 | 678912354 | stasiun tugu | 10    | 1       |
| 987654331 | 678912355 | stasiun tugu | 11    | 1       |
| 987654332 | 678912356 | stasiun tugu | 12    | 1       |
| 987654334 | 678912358 | stasiun tugu | 14    | 1       |
| 987654335 | 678912359 | stasiun tugu | 15    | 1       |
+-----------+-----------+--------------+-------+---------+
14 rows in set (0.001 sec)
```

3.1 Tabel Penumpang (and)

Query:

```
> SELECT * FROM tbpenumpang WHERE id_petugas = 20304050 AND telepon =
'85123456';
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbpenumpang WHERE id_petugas = 20304050 AND telepon = '85123456';
+--------------+-----------+------------+----------+---------------------+
| id_penumpang | id_tiket  | id_petugas | telepon  | alamat              |
+--------------+-----------+------------+----------+---------------------+
| 123240234    | 123456789 |   20304050 | 85123456 | jalan jayamahe no 7 |
+--------------+-----------+------------+----------+---------------------+
1 row in set (0.010 sec)
```

3.2 Tabel Penumpang (or)

Query:

```
> SELECT * FROM tbpenumpang WHERE id_petugas = 20304050 OR telepon =
'85123456';
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbpenumpang WHERE id_petugas = 20304050 OR telepon = '85123456';
+--------------+-----------+------------+----------+---------------------+
| id_penumpang | id_tiket  | id_petugas | telepon  | alamat              |
+--------------+-----------+------------+----------+---------------------+
| 123240234    | 123456789 |   20304050 | 85123456 | jalan jayamahe no 7 |
+--------------+-----------+------------+----------+---------------------+
1 row in set (0.011 sec)
```

3.3 Tabel Penumpang (not)

Query:

```
> SELECT * FROM tbpenumpang WHERE NOT id_petugas = 20304050;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbpenumpang WHERE NOT id_petugas = 20304050;
+--------------+------------+------------+----------+-----------------------+
| id_penumpang | id_tiket   | id_petugas | telepon  | alamat                |
+--------------+------------+------------+----------+-----------------------+
| 123240235    | 123456790  |   20304051 | 81234765 | jalan puncak no 3     |
| 123240236    | 123456791  |   20304052 | 85543678 | jalan teladan no 1    |
| 123240237    | 123456792  |   20304053 | 81876456 | jalan prestasi no 4   |
| 123240238    | 123456793  |   20304054 | 87534678 | jalan perjuangan no 2 |
| 123240239    | 123456794  |   20304055 | 80765980 | jalan babarsari no 1  |
| 123240240    | 123456795  |   20304056 | 89065431 | jalan gembira no 10   |
| 123240241    | 123456796  |   20304057 | 82534980 | jalan veteran no 13   |
| 123240242    | 123456797  |   20304058 | 83021876 | Jalan Proklamasi no 9 |
| 123240243    | 123456798  |   20304059 | 87531680 | jalan mawar no 18     |
| 123240244    | 123456799  |   20304060 | 86908654 | jalan biru no 3       |
| 123240245    | 1234567100 |   20304061 | 80152739 | jalan teknik no 4     |
| 123240246    | 1234567101 |   20304062 | 86014653 | jalan janti no 15     |
| 123240247    | 1234567102 |   20304063 | 88153842 | jalan cempaka no 17   |
| 123240248    | 1234567103 |   20304064 | 83157856 | jalan hore no 8
     |
+--------------+------------+------------+----------+-----------------------+
14 rows in set (0.001 sec)
```

4.1 Tabel Petugas (and)

Query:

```
> SELECT * FROM tbpetugas WHERE telepon = '85123456' AND alamat = 'jalan
jayamahe no 7';
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbpetugas WHERE telepon = '85123456' AND alamat = 'jalan jayamahe no 7';
+------------+------+----------+--------------------+
| id_petugas | nama | telepon  | alamat             |
+------------+------+----------+--------------------+
|   20304050 | alip | 85123456 | jalan jayamahe no 7 |
+------------+------+----------+--------------------+
1 row in set (0.001 sec)
```

4.2 Tabel Petugas (or)

Query:

```
> SELECT * FROM tbpetugas WHERE nama = 'karin' OR alamat = 'jalan gambira
no 10';
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbpetugas WHERE nama = 'karin' OR alamat = 'jalan gembira no 10';
+------------+-------+----------+---------------------+
| id_petugas | nama  | telepon  | alamat              |
+------------+-------+----------+---------------------+
|   20304056 | karin | 89065431 | jalan gembira no 10 |
+------------+-------+----------+---------------------+
1 row in set (0.001 sec)
```

4.3 Tabel Petugas (not)

Query:

```
> SELECT * FROM tbpetugas WHERE NOT nama = 'alip';
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbpetugas WHERE NOT nama = 'alip';
+------------+--------+----------+-----------------------+
| id_petugas | nama   | telepon  | alamat                |
+------------+--------+----------+-----------------------+
|   20304051 | ipah   | 81234765 | jalan puncak no 3     |
|   20304052 | ali    | 85543678 | jalan teladan no 1    |
|   20304053 | irul   | 81876456 | jalan prestasi no 4   |
|   20304054 | anwar  | 87534678 | jalan perjuangan no 2 |
|   20304055 | iva    | 80765980 | jalan babarsari no 1  |
|   20304056 | karin  | 89065431 | jalan gembira no 10   |
|   20304057 | vania  | 82534980 | jalan vateran no 13   |
|   20304058 | alsa   | 83021876 | jalan proklamasi no 9 |
|   20304059 | nahdia | 87531680 | jalan mawar no 18     |
|   20304060 | dhera  | 86908654 | jalan biru no 3       |
|   20304061 | puput  | 80152739 | jalan teknik no 4     |
|   20304062 | salsa  | 86014653 | jalan janti no 15     |
|   20304063 | jelita | 88153842 | jalan cempaka no 17   |
|   20304064 | vana   | 83157856 | jalan hore no 8       |
+------------+--------+----------+-----------------------+
14 rows in set (0.001 sec)
```

5.1 Tabel Tiket (and)

Query:

```
> SELECT*FROM tbtiket WHERE jenis = 'reguler' AND harga = '50000';
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbtiket where jenis = 'reguler' and harga = '50000';
+------------+--------+-------+---------+------------+
| id_tiket   | jumlah | harga | jenis   | tujuan     |
+------------+--------+-------+---------+------------+
| 1234567103 | 1      | 50000 | reguler | yogyakarta |
| 123456789  | 1      | 50000 | reguler | yogyakarta |
| 123456790  | 1      | 50000 | reguler | yogyakarta |
| 123456794  | 1      | 50000 | reguler | yogyakarta |
| 123456795  | 1      | 50000 | reguler | yogyakarta |
| 123456799  | 1      | 50000 | reguler | yogyakarta |
+------------+--------+-------+---------+------------+
6 rows in set (0.000 sec)
```

5.2 Tabel Tiket (or)

Query:

```
> SELECT * FROM tbtiket WHERE jenis = 'reguler' OR jenis = 'eksklusif';
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbtiket where jenis = 'reguler' or jenis = 'eksklusif';
+------------+--------+-------+-----------+------------+
| id_tiket   | jumlah | harga | jenis     | tujuan     |
+------------+--------+-------+-----------+------------+
| 1234567101 | 1      | 70000 | eksklusif | yogyakarta |
| 1234567103 | 1      | 50000 | reguler   | yogyakarta |
| 123456789  | 1      | 50000 | reguler   | yogyakarta |
| 123456790  | 1      | 50000 | reguler   | yogyakarta |
| 123456792  | 1      | 70000 | eksklusif | yogyakarta |
| 123456794  | 1      | 50000 | reguler   | yogyakarta |
| 123456795  | 1      | 50000 | reguler   | yogyakarta |
| 123456796  | 1      | 70000 | eksklusif | yogyakarta |
| 123456799  | 1      | 50000 | reguler   | yogyakarta |
+------------+--------+-------+-----------+------------+
9 rows in set (0.001 sec)
```

5.3 Tabel Tiket (not)

Query:

```
> SELECT jumlah, harga FROM tbtiket WHERE NOT harga = '30000';
```

Hasil Query:

```
MariaDB [db_stasiun]> select jumlah,harga from tbtiket
    -> where not harga = '30000';
+--------+-------+
| jumlah | harga |
+--------+-------+
| 1      | 70000 |
| 1      | 50000 |
| 1      | 50000 |
| 1      | 50000 |
| 1      | 70000 |
| 1      | 50000 |
| 1      | 50000 |
| 1      | 70000 |
| 1      | 50000 |
+--------+-------+
9 rows in set (0.001 sec)
```

C. SQL Group By

1. Tabel Jadwal

Query:

```
> SELECT * FROM tbjdwal group by id_tiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbjadwal group by id_tiket;
+-----------+--------------+------------+--------------+-------+------------+
| id_jadwal | id_penumpang | id_tiket   | stasiun      | jam   | tanggal    |
+-----------+--------------+------------+--------------+-------+------------+
| 678912356 | 123240245    | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912357 | 123240246    | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912358 | 123240247    | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912359 | 123240248    | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912345 | 123240234    | 123456789  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912346 | 123240235    | 123456790  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912347 | 123240236    | 123456791  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912348 | 123240237    | 123456792  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912349 | 123240238    | 123456793  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912350 | 123240239    | 123456794  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912351 | 123240240    | 123456795  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912352 | 123240241    | 123456796  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912353 | 123240242    | 123456797  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912354 | 123240243    | 123456798  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912355 | 123240244    | 123456799  | stasiun tugu | 06.00 | 2024-11-24 |
+-----------+--------------+------------+--------------+-------+------------+
15 rows in set (0.010 sec)
```

2. Tabel Kereta

Query:

```
> SELECT * FROM tbkereta group by kursi;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbkereta group by kursi;
+-----------+-----------+--------------+-------+---------+
| id_kereta | id_jadwal | rute         | kursi | gerbong |
+-----------+-----------+--------------+-------+---------+
| 987654321 | 678912345 | stasiun tugu | 1     | 1       |
| 987654330 | 678912354 | stasiun tugu | 10    | 1       |
| 987654331 | 678912355 | stasiun tugu | 11    | 1       |
| 987654332 | 678912356 | stasiun tugu | 12    | 1       |
| 987654333 | 678912357 | stasiun tugu | 13    | 1       |
| 987654334 | 678912358 | stasiun tugu | 14    | 1       |
| 987654335 | 678912359 | stasiun tugu | 15    | 1       |
| 987654322 | 678912346 | stasiun tugu | 2     | 1       |
| 987654323 | 678912347 | stasiun tugu | 3     | 1       |
| 987654324 | 678912348 | stasiun tugu | 4     | 1       |
| 987654325 | 678912349 | stasiun tugu | 5     | 1       |
| 987654326 | 678912350 | stasiun tugu | 6     | 1       |
| 987654327 | 678912351 | stasiun tugu | 7     | 1       |
| 987654328 | 678912352 | stasiun tugu | 8     | 1       |
| 987654329 | 678912353 | stasiun tugu | 9     | 1       |
+-----------+-----------+--------------+-------+---------+
15 rows in set (0.001 sec)
```

3. Tabel Penumpang

Query:

```
> SELECT * FROM tbpenumpang group by alamat;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbpenumpang group by alamat;
+--------------+------------+------------+----------+-----------------------+
| id_penumpang | id_tiket   | id_petugas | telepon  | alamat                |
+--------------+------------+------------+----------+-----------------------+
| 123240239    | 123456794  |   20304055 | 80765980 | jalan babarsari no 1  |
| 123240244    | 123456799  |   20304060 | 86908654 | jalan biru no 3       |
| 123240247    | 1234567102 |   20304063 | 88153842 | jalan cempaka no 17   |
| 123240240    | 123456795  |   20304056 | 89065431 | jalan gembira no 10   |
| 123240248    | 1234567103 |   20304064 | 83157856 | jalan hore no 8
     |
| 123240246    | 1234567101 |   20304062 | 86014653 | jalan janti no 15     |
| 123240234    | 123456789  |   20304050 | 85123456 | jalan jayamahe no 7   |
| 123240243    | 123456798  |   20304059 | 87531680 | jalan mawar no 18     |
| 123240238    | 123456793  |   20304054 | 87534678 | jalan perjuangan no 2 |
| 123240237    | 123456792  |   20304053 | 81876456 | jalan prestasi no 4   |
| 123240242    | 123456797  |   20304058 | 83021876 | Jalan Proklamasi no 9 |
| 123240235    | 123456790  |   20304051 | 81234765 | jalan puncak no 3     |
| 123240245    | 1234567100 |   20304061 | 80152739 | jalan teknik no 4     |
| 123240236    | 123456791  |   20304052 | 85543678 | jalan teladan no 1    |
| 123240241    | 123456796  |   20304057 | 82534980 | jalan veteran no 13   |
+--------------+------------+------------+----------+-----------------------+
15 rows in set (0.001 sec)
```

4. Tabel Petugas

Query:

```
> SELECT * FROM tbpetugas group by nama;
```

Hasil Query:

```
MariaDB [db_stasiun]> select*from tbpetugas group by nama;
+------------+--------+----------+-----------------------+
| id_petugas | nama   | telepon  | alamat                |
+------------+--------+----------+-----------------------+
|   20304052 | ali    | 85543678 | jalan teladan no 1    |
|   20304050 | alip   | 85123456 | jalan jayamahe no 7   |
|   20304058 | alsa   | 83021876 | jalan proklamasi no 9 |
|   20304054 | anwar  | 87534678 | jalan perjuangan no 2 |
|   20304060 | dhera  | 86908654 | jalan biru no 3       |
|   20304051 | ipah   | 81234765 | jalan puncak no 3     |
|   20304053 | irul   | 81876456 | jalan prestasi no 4   |
|   20304055 | iva    | 80765980 | jalan babarsari no 1  |
|   20304063 | jelita | 88153842 | jalan cempaka no 17   |
|   20304056 | karin  | 89065431 | jalan gembira no 10   |
|   20304059 | nahdia | 87531680 | jalan mawar no 18     |
|   20304061 | puput  | 80152739 | jalan teknik no 4     |
|   20304062 | salsa  | 86014653 | jalan janti no 15     |
|   20304064 | vana   | 83157856 | jalan hore no 8       |
|   20304057 | vania  | 82534980 | jalan vateran no 13   |
+------------+--------+----------+-----------------------+
15 rows in set (0.001 sec)
```

5. Tabel Tiket

Query:

```
> SELECT jenis, COUNT(id_tiket) AS harga FROM tbtiket GROUP BY jenis;
```

Hasil Query:

```
MariaDB [db_stasiun]> select jenis, count(id_tiket) as harga from tbtiket group by jenis;
+-----------+-------+
| jenis     | harga |
+-----------+-------+
| ekonomi   |     6 |
| eksklusif |     3 |
| reguler   |     6 |
+-----------+-------+
3 rows in set (0.001 sec)
```

D. SQL Order By

1. Tabel Jadwal

Query:

```
> SELECT id_jadwal,stasiun,jam,tanggal FROM tbjadwal ORDER BY id_jadwal
desc;
```

Hasil Query:

```
MariaDB [db_stasiun]> select id_jadwal, stasiun,jam,tanggal from tbjadwal order by id_jadwal desc;
+-----------+--------------+-------+------------+
| id_jadwal | stasiun      | jam   | tanggal    |
+-----------+--------------+-------+------------+
| 678912359 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912358 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912357 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912356 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912355 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912354 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912353 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912352 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912351 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912350 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912349 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912348 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912347 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912346 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912345 | stasiun tugu | 06.00 | 2024-11-24 |
+-----------+--------------+-------+------------+
15 rows in set (0.001 sec)
```

2. Tabel Kereta

Query:

```
> SELECT id_kereta,kursi,gerbong FROM tbkereta ORDER BY id_kereta desc;
```

Hasil Query:

```
MariaDB [db_stasiun]> select id_kereta,kursi,gerbong from tbkereta order by id_kereta desc;
+-----------+-------+---------+
| id_kereta | kursi | gerbong |
+-----------+-------+---------+
| 987654335 | 15    | 1       |
| 987654334 | 14    | 1       |
| 987654333 | 13    | 1       |
| 987654332 | 12    | 1       |
| 987654331 | 11    | 1       |
| 987654330 | 10    | 1       |
| 987654329 | 9     | 1       |
| 987654328 | 8     | 1       |
| 987654327 | 7     | 1       |
| 987654326 | 6     | 1       |
| 987654325 | 5     | 1       |
| 987654324 | 4     | 1       |
| 987654323 | 3     | 1       |
| 987654322 | 2     | 1       |
| 987654321 | 1     | 1       |
+-----------+-------+---------+
15 rows in set (0.001 sec)
```

3. Tabel Penumpang

Query:

```
> SELECT id_penumpang,id_tiket,id_petugas FROM tbpenumpang ORDER BY
id_penumpang desc;
```

Hasil Query:

```
MariaDB [db_stasiun]> select id_penumpang,id_tiket,id_petugas from tbpenumpang order by id_penumpang desc;
+--------------+------------+------------+
| id_penumpang | id_tiket   | id_petugas |
+--------------+------------+------------+
| 123240248    | 1234567103 |   20304064 |
| 123240247    | 1234567102 |   20304063 |
| 123240246    | 1234567101 |   20304062 |
| 123240245    | 1234567100 |   20304061 |
| 123240244    | 123456799  |   20304060 |
| 123240243    | 123456798  |   20304059 |
| 123240242    | 123456797  |   20304058 |
| 123240241    | 123456796  |   20304057 |
| 123240240    | 123456795  |   20304056 |
| 123240239    | 123456794  |   20304055 |
| 123240238    | 123456793  |   20304054 |
| 123240237    | 123456792  |   20304053 |
| 123240236    | 123456791  |   20304052 |
| 123240235    | 123456790  |   20304051 |
| 123240234    | 123456789  |   20304050 |
+--------------+------------+------------+
15 rows in set (0.001 sec)
```

4. Tabel Petugas

Query:

```
> SELECT id_petugas,nama,telepon FROM tbpetugas ORDER BY id_petugas desc;
```

Hasil Query:

```
MariaDB [db_stasiun]> select id_petugas,nama,telepon from tbpetugas order by id_petugas desc;
+------------+--------+----------+
| id_petugas | nama   | telepon  |
+------------+--------+----------+
|   20304064 | vana   | 83157856 |
|   20304063 | jelita | 88153842 |
|   20304062 | salsa  | 86014653 |
|   20304061 | puput  | 80152739 |
|   20304060 | dhera  | 86908654 |
|   20304059 | nahdia | 87531680 |
|   20304058 | alsa   | 83021876 |
|   20304057 | vania  | 82534980 |
|   20304056 | karin  | 89065431 |
|   20304055 | iva    | 80765980 |
|   20304054 | anwar  | 87534678 |
|   20304053 | irul   | 81876456 |
|   20304052 | ali    | 85543678 |
|   20304051 | ipah   | 81234765 |
|   20304050 | alip   | 85123456 |
+------------+--------+----------+
15 rows in set (0.001 sec)
```

5. Tabel Tiket

Query:

```
> SELECT id_tiket,tujuan FROM tbtiket ORDER BY id_tiket desc;
```

Hasil Query:

```
MariaDB [db_stasiun]> select id_tiket,tujuan from tbtiket order by id_tiket desc;
+------------+------------+
| id_tiket   | tujuan     |
+------------+------------+
| 123456799  | yogyakarta |
| 123456798  | yogyakarta |
| 123456797  | yogyakarta |
| 123456796  | yogyakarta |
| 123456795  | yogyakarta |
| 123456794  | yogyakarta |
| 123456793  | yogyakarta |
| 123456792  | yogyakarta |
| 123456791  | yogyakarta |
| 123456790  | yogyakarta |
| 123456789  | yogyakarta |
| 1234567103 | yogyakarta |
| 1234567102 | yogyakarta |
| 1234567101 | yogyakarta |
| 1234567100 | yogyakarta |
+------------+------------+
15 rows in set (0.001 sec)
```

E. SQL Having

1. Tabel Jadwal

Query:

```
> SELECT id_jadwal, id_penumpang, id_tiket, stasiun, jam, tanggal FROM
tbjadwal GROUP BY id_jadwal, id_penumpang, id_tiket, stasiun, jam, tanggal
HAVING tanggal = '2024-11-24' AND jam = '06.00';
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT id_jadwal, id_penumpang, id_tiket, stasiun, jam, tanggal
    -> FROM tbjadwal
    -> GROUP BY id_jadwal, id_penumpang, id_tiket, stasiun, jam, tanggal
    -> HAVING tanggal = '2024-11-24' AND jam = '06.00';
+-----------+-------------+------------+-------------+-------+------------+
| id_jadwal | id_penumpang | id_tiket   | stasiun     | jam   | tanggal    |
+-----------+-------------+------------+-------------+-------+------------+
| 678912345 | 123240234   | 123456789  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912346 | 123240235   | 123456790  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912347 | 123240236   | 123456791  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912348 | 123240237   | 123456792  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912349 | 123240238   | 123456793  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912350 | 123240239   | 123456794  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912351 | 123240240   | 123456795  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912352 | 123240241   | 123456796  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912353 | 123240242   | 123456797  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912354 | 123240243   | 123456798  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912355 | 123240244   | 123456799  | stasiun tugu | 06.00 | 2024-11-24 |
| 678912356 | 123240245   | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912357 | 123240246   | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912358 | 123240247   | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 |
| 678912359 | 123240248   | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 |
+-----------+-------------+------------+-------------+-------+------------+
15 rows in set (0.002 sec)
```

2. Tabel Kereta

Query:

```
> SELECT gerbong, COUNT(kursi) AS jumlah_kursi FROM tabel_kereta GROUP BY
gerbong HAVING COUNT(kursi) > 10;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT gerbong, COUNT(kursi) AS kursi FROM tbkereta GROUP BY gerbong HAVING
COUNT(kursi) > 10;
+---------+-------+
| gerbong | kursi |
+---------+-------+
| 1       |    15 |
+---------+-------+
1 row in set (0.001 sec)
```

3. Tabel Penumpang

Query:

```
> SELECT id_penumpang, id_tiket, id_petugas, telepon, alamat FROM
tbpenumpang GROUP BY id_penumpang, id_tiket, id_petugas, telepon,alamat
HAVING telepon LIKE '85%';
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT id_penumpang, id_tiket, id_petugas, telepon, alamat FROM tbpenumpang GROUP BY id_penumpang,
 id_tiket, id_petugas, telepon,alamat HAVING telepon LIKE '85%';
+--------------+----------+----------+----------+--------------------+
| id_penumpang | id_tiket | id_petugas | telepon  | alamat             |
+--------------+----------+----------+----------+--------------------+
| 123140234    | 123456789 |  20304050 | 85123456 | jalan jayamahe no 7 |
| 123160210    | 123456701 |  20304052 | 85543678 | jalan teladan no 1  |
+--------------+----------+----------+----------+--------------------+
2 rows in set (0.011 sec)
```

4. Tabel Petugas

Query:

```
> SELECT id_petugas, nama, telepon, alamat FROM tbpetugas GROUP BY
id_petugas, nama, telepon, alamat HAVING telepon LIKE '85%';
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT id_petugas, nama, telepon, alamat FROM tbpetugas GROUP BY id_petugas, nama, telepon, alamat
 HAVING telepon LIKE '85%';
+----------+------+----------+--------------------+
| id_petugas | nama | telepon  | alamat             |
+----------+------+----------+--------------------+
|  20304050 | alip | 85123456 | jalan jayamahe no 7 |
|  20304052 | ali  | 85543678 | jalan teladan no 1  |
+----------+------+----------+--------------------+
2 rows in set (0.001 sec)
```

5. Tabel Tiket

Query:

```
> SELECT jenis, AVG(harga) AS rata_harga FROM tbtiket GROUP BY jenis HAVING
AVG(harga) > 50000;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT jenis, AVG(harga) AS rata_harga FROM tbtiket GROUP BY jenis HAVING AVG(harga) > 50000;
+-----------+------------+
| jenis     | rata_harga |
+-----------+------------+
| eksklusif |      70000 |
+-----------+------------+
1 row in set (0.011 sec)
```

F. Gabungan dari 5 SQL diatas

Tabel Tiket (where, and, group by, order by, having)

Query:

```
> SELECT tujuan, jenis, SUM(harga) AS total_harga, COUNT(id_tiket) AS
jumlah_tiket FROM tbtiket WHERE tujuan = 'yogyakarta' GROUP BY tujuan,
jenis HAVING SUM(harga) > 100000 ORDER BY total_harga DESC;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT tujuan, jenis, SUM(harga) AS total_harga,
    -> COUNT(id_tiket) AS jumlah_tiket
    -> FROM tbtiket
    -> WHERE tujuan = 'yogyakarta'
    -> GROUP BY tujuan, jenis
    -> HAVING SUM(harga) > 100000
    -> ORDER BY total_harga DESC;
+------------+-----------+-------------+--------------+
| tujuan     | jenis     | total_harga | jumlah_tiket |
+------------+-----------+-------------+--------------+
| yogyakarta | reguler   |      300000 |            6 |
| yogyakarta | eksklusif |      210000 |            3 |
| yogyakarta | ekonomi   |      180000 |            6 |
+------------+-----------+-------------+--------------+
3 rows in set (0.001 sec)
```

Tugas 3

Buat perintah JOIN untuk masing-masing tabel yang memiliki foreign key:

A. Cross Join

1. Tabel Jadwal dan Tabel Kereta

Query:

```
> SELECT * FROM tbkereta AS kereta CROSS JOIN tbjadwal AS jadwal WHERE
kereta.id_jadwal = jadwal.id_jadwal;
```

Hasil Query:

```
Maria08 [db_stasiun]> SELECT*FROM tbkereta AS kereta
    -> CROSS JOIN tbjadwal AS jadwal
    -> WHERE kereta.id_jadwal = jadwal.id_jadwal;
```

id_kereta	id_jadwal	rute	kursi	gerbong	id_jadwal	id_penumpang	id_tiket	stasiun	jam	tanggal
987654321	678912345	stasiun tugu	1	1	678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24
987654322	678912346	stasiun tugu	2	1	678912346	123240235	123456790	stasiun tugu	06.00	2024-11-24
987654323	678912347	stasiun tugu	3	1	678912347	123240236	123456791	stasiun tugu	06.00	2024-11-24
987654324	678912348	stasiun tugu	4	1	678912348	123240237	123456792	stasiun tugu	06.00	2024-11-24
987654325	678912349	stasiun tugu	5	1	678912349	123240238	123456793	stasiun tugu	06.00	2024-11-24
987654326	678912350	stasiun tugu	6	1	678912350	123240239	123456794	stasiun tugu	06.00	2024-11-24
987654327	678912351	stasiun tugu	7	1	678912351	123240240	123456795	stasiun tugu	06.00	2024-11-24
987654328	678912352	stasiun tugu	8	1	678912352	123240241	123456796	stasiun tugu	06.00	2024-11-24
987654329	678912353	stasiun tugu	9	1	678912353	123240242	123456797	stasiun tugu	06.00	2024-11-24
987654330	678912354	stasiun tugu	10	1	678912354	123240243	123456798	stasiun tugu	06.00	2024-11-24
987654331	678912355	stasiun tugu	11	1	678912355	123240244	123456799	stasiun tugu	06.00	2024-11-24
987654332	678912356	stasiun tugu	12	1	678912356	123240245	1234567100	stasiun tugu	06.00	2024-11-24
987654333	678912357	stasiun tugu	13	1	678912357	123240246	1234567101	stasiun tugu	06.00	2024-11-24
987654334	678912358	stasiun tugu	14	1	678912358	123240247	1234567102	stasiun tugu	06.00	2024-11-24
987654335	678912359	stasiun tugu	15	1	678912359	123240248	1234567103	stasiun tugu	06.00	2024-11-24

```
15 rows in set (0.002 sec)
```

2. Tabel Penumpang dengan Tabel Petugas

Query:

```
> SELECT * FROM tbpenumpang AS penumpang CROSS JOIN tbpetugas AS petugas;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT* FROM tbpenumpang AS penumpang
    -> CROSS JOIN tbpetugas AS petugas;
+-------------+----------+-----------+----------+---------------------+-----------+-------+----------+---------------------+
| id_penumpang | id_tiket | id_petugas | telepon | alamat              | id_petugas | nama | telepon | alamat              |
+-------------+----------+-----------+----------+---------------------+-----------+-------+----------+---------------------+
| 123240234 | 123456789 | 20304050 | 85123456 | jalan jayamahe no 7 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240235 | 123456790 | 20304051 | 81234765 | jalan puncak no 3 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240236 | 123456791 | 20304052 | 85543678 | jalan teladan no 1 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240237 | 123456792 | 20304053 | 81876456 | jalan prestasi no 4 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240238 | 123456793 | 20304054 | 87534678 | jalan perjuangan no 2 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240239 | 123456794 | 20304055 | 80765980 | jalan babarsari no 1 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240240 | 123456795 | 20304056 | 89065431 | jalan gembira no 10 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240241 | 123456796 | 20304057 | 82534980 | jalan veteran no 13 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240242 | 123456797 | 20304058 | 83021876 | jalan Proklamasi no 9 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240243 | 123456798 | 20304059 | 87531680 | jalan nawar no 18 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240244 | 123456799 | 20304060 | 86908654 | jalan biru no 3 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240245 | 123456710 0 | 20304061 | 80152739 | jalan teknik no 4 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240246 | 123456710 1 | 20304062 | 86014653 | jalan janti no 15 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240247 | 123456710 2 | 20304063 | 88153842 | jalan cempaka no 17 | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240248 | 123456710 3 | 20304064 | 83157856 | jalan hore no 8 |
|  | 20304050 | alip | 85123456 | jalan jayamahe no 7 |
| 123240234 | 123456789 | 20304050 | 85123456 | jalan jayamahe no 7 | 20304051 | ipah | 81234765 | jalan puncak no 3 |
| 123240235 | 123456790 | 20304051 | 81234765 | jalan puncak no 3 | 20304051 | ipah | 81234765 | jalan puncak no 3 |
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123240236	123456791	20304052	85543678	jalan teladan no 1	20304062	salsa	86014653	jalan janti no 15
123240237	123456792	20304053	81876456	jalan prestasi no 4	20304062	salsa	86014653	jalan janti no 15
123240238	123456793	20304054	87534678	jalan perjuangan no 2	20304062	salsa	86014653	jalan janti no 15
123240239	123456794	20304055	80765980	jalan babarsari no 1	20304062	salsa	86014653	jalan janti no 15
123240240	123456795	20304056	89065431	jalan gembira no 10	20304062	salsa	86014653	jalan janti no 15
123240241	123456796	20304057	82534980	jalan veteran no 13	20304062	salsa	86014653	jalan janti no 15
123240242	123456797	20304058	83021876	jalan Proklamasi no 9	20304062	salsa	86014653	jalan janti no 15
123240243	123456798	20304059	87531680	jalan mawar no 18	20304062	salsa	86014653	jalan janti no 15
123240244	123456799	20304060	86908654	jalan biru no 3	20304062	salsa	86014653	jalan janti no 15
123240245	1234567100	20304061	80152739	jalan teknik no 4	20304062	salsa	86014653	jalan janti no 15
123240246	1234567101	20304062	86014653	jalan janti no 15	20304062	salsa	86014653	jalan janti no 15
123240247	1234567102	20304063	88153842	jalan cempaka no 17	20304062	salsa	86014653	jalan janti no 15
123240248	1234567103	20304064	83157856	jalan hore no 8				
20304062	salsa	86014653	jalan janti no 15					
123240234	123456789	20304050	85123456	jalan jayamahe no 7	20304063	jelita	88153842	jalan cempaka no 17
123240235	123456790	20304051	81234765	jalan puncak no 3	20304063	jelita	88153842	jalan cempaka no 17
123240236	123456791	20304052	85543678	jalan teladan no 1	20304063	jelita	88153842	jalan cempaka no 17
123240237	123456792	20304053	81876456	jalan prestasi no 4	20304063	jelita	88153842	jalan cempaka no 17
123240238	123456793	20304054	87534678	jalan perjuangan no 2	20304063	jelita	88153842	jalan cempaka no 17
123240239	123456794	20304055	80765980	jalan babarsari no 1	20304063	jelita	88153842	jalan cempaka no 17
123240240	123456795	20304056	89065431	jalan gembira no 10	20304063	jelita	88153842	jalan cempaka no 17
123240241	123456796	20304057	82534980	jalan veteran no 13	20304063	jelita	88153842	jalan cempaka no 17
123240242	123456797	20304058	83021876	jalan Proklamasi no 9	20304063	jelita	88153842	jalan cempaka no 17
123240243	123456798	20304059	87531680	jalan mawar no 18	20304063	jelita	88153842	jalan cempaka no 17
123240244	123456799	20304060	86908654	jalan biru no 3	20304063	jelita	88153842	jalan cempaka no 17
123240245	1234567100	20304061	80152739	jalan teknik no 4	20304063	jelita	88153842	jalan cempaka no 17
123240246	1234567101	20304062	86014653	jalan janti no 15	20304063	jelita	88153842	jalan cempaka no 17
123240247	1234567102	20304063	88153842	jalan cempaka no 17	20304063	jelita	88153842	jalan cempaka no 17
123240248	1234567103	20304064	83157856	jalan hore no 8				
20304063	jelita	88153842	jalan cempaka no 17					
123240234	123456789	20304050	85123456	jalan jayamahe no 7	20304064	vana	83157856	jalan hore no 8
123240235	123456790	20304051	81234765	jalan puncak no 3	20304064	vana	83157856	jalan hore no 8
123240236	123456791	20304052	85543678	jalan teladan no 1	20304064	vana	83157856	jalan hore no 8
123240237	123456792	20304053	81876456	jalan prestasi no 4	20304064	vana	83157856	jalan hore no 8
123240238	123456793	20304054	87534678	jalan perjuangan no 2	20304064	vana	83157856	jalan hore no 8
123240239	123456794	20304055	80765980	jalan babarsari no 1	20304064	vana	83157856	jalan hore no 8
123240240	123456795	20304056	89065431	jalan gembira no 10	20304064	vana	83157856	jalan hore no 8
123240241	123456796	20304057	82534980	jalan veteran no 13	20304064	vana	83157856	jalan hore no 8
123240242	123456797	20304058	83021876	jalan Proklamasi no 9	20304064	vana	83157856	jalan hore no 8
123240243	123456798	20304059	87531680	jalan mawar no 18	20304064	vana	83157856	jalan hore no 8
123240244	123456799	20304060	86908654	jalan biru no 3	20304064	vana	83157856	jalan hore no 8
123240245	1234567100	20304061	80152739	jalan teknik no 4	20304064	vana	83157856	jalan hore no 8
123240246	1234567101	20304062	86014653	jalan janti no 15	20304064	vana	83157856	jalan hore no 8
123240247	1234567102	20304063	88153842	jalan cempaka no 17	20304064	vana	83157856	jalan hore no 8
123240248	1234567103	20304064	83157856	jalan hore no 8				
20304064	vana	83157856	jalan hore no 8					

25 rows in set (0.002 sec)

3. Tabel Penumpang dengan Tabel Jadwal

Query:

```
> SELECT * FROM tbpenumpang AS penumpang CROSS JOIN tbjadwal AS jadwal;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbpenumpang AS penumpang
    -> CROSS JOIN tbjadwal AS jadwal;
+-------------+-----------+-----------+----------+-----------------------+-----------+-------------+-----------+-----------+-------+-----------+
| id_penumpang | id_tiket  | id_petugas | telepon  | alamat                | id_jadwal | id_penumpang | id_tiket  | stasiun   | jam   | tanggal   |
+-------------+-----------+-----------+----------+-----------------------+-----------+-------------+-----------+-----------+-------+-----------+
| 123240234   | 123456789 | 20304050  | 85123456 | jalan jayamahe no 7   | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240235   | 123456790 | 20304051  | 81234765 | jalan puncak no 3     | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240236   | 123456791 | 20304052  | 85543678 | jalan teladan no 1    | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240237   | 123456792 | 20304053  | 81876456 | jalan prestasi no 4   | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240238   | 123456793 | 20304054  | 87534678 | jalan perjuangan no 2 | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240239   | 123456794 | 20304055  | 80765980 | jalan babarsari no 1  | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240240   | 123456795 | 20304056  | 89065431 | jalan gembira no 10   | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240241   | 123456796 | 20304057  | 82534080 | jalan veteran no 13   | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240242   | 123456797 | 20304058  | 83021876 | jalan Proklamasi no 9 | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240243   | 123456798 | 20304059  | 87531680 | jalan mawar no 18     | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240244   | 123456799 | 20304060  | 86908654 | jalan biru no 3       | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240245   | 123456710 0 | 20304061  | 88152739 | jalan teknik no 4     | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240246   | 123456710 1 | 20304062  | 86014653 | jalan janti no 15     | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240247   | 123456710 2 | 20304063  | 88153842 | jalan cempaka no 17   | 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240248   | 123456710 3 | 20304064  | 83157856 | jalan hore no 8       |
| 678912345 | 123240234 | 123456789 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240234   | 123456789 | 20304050  | 85123456 | jalan jayamahe no 7   | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240235   | 123456790 | 20304051  | 81234765 | jalan puncak no 3     | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240236   | 123456791 | 20304052  | 85543678 | jalan teladan no 1    | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240237   | 123456792 | 20304053  | 81876456 | jalan prestasi no 4   | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240238   | 123456793 | 20304054  | 87534678 | jalan perjuangan no 2 | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240239   | 123456794 | 20304055  | 80765980 | jalan babarsari no 1  | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240240   | 123456795 | 20304056  | 89065431 | jalan gembira no 10   | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240241   | 123456796 | 20304057  | 82534080 | jalan veteran no 13   | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240242   | 123456797 | 20304058  | 83021876 | jalan Proklamasi no 9 | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240243   | 123456798 | 20304059  | 87531680 | jalan mawar no 18     | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240244   | 123456799 | 20304060  | 86908654 | jalan biru no 3       | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240245   | 123456710 0 | 20304061  | 88152739 | jalan teknik no 4     | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240246   | 123456710 1 | 20304062  | 86014653 | jalan janti no 15     | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240247   | 123456710 2 | 20304063  | 88153842 | jalan cempaka no 17   | 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240248   | 123456710 3 | 20304064  | 83157856 | jalan hore no 8       |
| 678912346 | 123240235 | 123456790 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240234   | 123456789 | 20304050  | 85123456 | jalan jayamahe no 7   | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240235   | 123456790 | 20304051  | 81234765 | jalan puncak no 3     | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240236   | 123456791 | 20304052  | 85543678 | jalan teladan no 1    | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240237   | 123456792 | 20304053  | 81876456 | jalan prestasi no 4   | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240238   | 123456793 | 20304054  | 87534678 | jalan perjuangan no 2 | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240239   | 123456794 | 20304055  | 80765980 | jalan babarsari no 1  | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240240   | 123456795 | 20304056  | 89065431 | jalan gembira no 10   | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240241   | 123456796 | 20304057  | 82534080 | jalan veteran no 13   | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240242   | 123456797 | 20304058  | 83021876 | jalan Proklamasi no 9 | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240243   | 123456798 | 20304059  | 87531680 | jalan mawar no 18     | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240244   | 123456799 | 20304060  | 86908654 | jalan biru no 3       | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240245   | 123456710 0 | 20304061  | 88152739 | jalan teknik no 4     | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240246   | 123456710 1 | 20304062  | 86014653 | jalan janti no 15     | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240247   | 123456710 2 | 20304063  | 88153842 | jalan cempaka no 17   | 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240248   | 123456710 3 | 20304064  | 83157856 | jalan hore no 8       |
| 678912347 | 123240236 | 123456791 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240234   | 123456789 | 20304050  | 85123456 | jalan jayamahe no 7   | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240235   | 123456790 | 20304051  | 81234765 | jalan puncak no 3     | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240236   | 123456791 | 20304052  | 85543678 | jalan teladan no 1    | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240237   | 123456792 | 20304053  | 81876456 | jalan prestasi no 4   | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240238   | 123456793 | 20304054  | 87534678 | jalan perjuangan no 2 | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240239   | 123456794 | 20304055  | 80765980 | jalan babarsari no 1  | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240240   | 123456795 | 20304056  | 89065431 | jalan gembira no 10   | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240241   | 123456796 | 20304057  | 82534080 | jalan veteran no 13   | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240242   | 123456797 | 20304058  | 83021876 | jalan Proklamasi no 9 | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240243   | 123456798 | 20304059  | 87531680 | jalan mawar no 18     | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240244   | 123456799 | 20304060  | 86908654 | jalan biru no 3       | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240245   | 123456710 0 | 20304061  | 88152739 | jalan teknik no 4     | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240246   | 123456710 1 | 20304062  | 86014653 | jalan janti no 15     | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240247   | 123456710 2 | 20304063  | 88153842 | jalan cempaka no 17   | 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240248   | 123456710 3 | 20304064  | 83157856 | jalan hore no 8       |
| 678912348 | 123240237 | 123456792 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240234   | 123456789 | 20304050  | 85123456 | jalan jayamahe no 7   | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240235   | 123456790 | 20304051  | 81234765 | jalan puncak no 3     | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240236   | 123456791 | 20304052  | 85543678 | jalan teladan no 1    | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240237   | 123456792 | 20304053  | 81876456 | jalan prestasi no 4   | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240238   | 123456793 | 20304054  | 87534678 | jalan perjuangan no 2 | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240239   | 123456794 | 20304055  | 80765980 | jalan babarsari no 1  | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240240   | 123456795 | 20304056  | 89065431 | jalan gembira no 10   | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240241   | 123456796 | 20304057  | 82534080 | jalan veteran no 13   | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240242   | 123456797 | 20304058  | 83021876 | jalan Proklamasi no 9 | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240243   | 123456798 | 20304059  | 87531680 | jalan mawar no 18     | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240244   | 123456799 | 20304060  | 86908654 | jalan biru no 3       | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240245   | 123456710 0 | 20304061  | 88152739 | jalan teknik no 4     | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240246   | 123456710 1 | 20304062  | 86014653 | jalan janti no 15     | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240247   | 123456710 2 | 20304063  | 88153842 | jalan cempaka no 17   | 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240248   | 123456710 3 | 20304064  | 83157856 | jalan hore no 8       |
| 678912349 | 123240238 | 123456793 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240234   | 123456789 | 20304050  | 85123456 | jalan jayamahe no 7   | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240235   | 123456790 | 20304051  | 81234765 | jalan puncak no 3     | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240236   | 123456791 | 20304052  | 85543678 | jalan teladan no 1    | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240237   | 123456792 | 20304053  | 81876456 | jalan prestasi no 4   | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240238   | 123456793 | 20304054  | 87534678 | jalan perjuangan no 2 | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240239   | 123456794 | 20304055  | 80765980 | jalan babarsari no 1  | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240240   | 123456795 | 20304056  | 89065431 | jalan gembira no 10   | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240241   | 123456796 | 20304057  | 82534080 | jalan veteran no 13   | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240242   | 123456797 | 20304058  | 83021876 | jalan Proklamasi no 9 | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240243   | 123456798 | 20304059  | 87531680 | jalan mawar no 18     | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240244   | 123456799 | 20304060  | 86908654 | jalan biru no 3       | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240245   | 123456710 0 | 20304061  | 88152739 | jalan teknik no 4     | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240246   | 123456710 1 | 20304062  | 86014653 | jalan janti no 15     | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240247   | 123456710 2 | 20304063  | 88153842 | jalan cempaka no 17   | 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240248   | 123456710 3 | 20304064  | 83157856 | jalan hore no 8       |
| 678912350 | 123240239 | 123456794 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240234   | 123456789 | 20304050  | 85123456 | jalan jayamahe no 7   | 678912351 | 123240240   | 123456795 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240235   | 123456790 | 20304051  | 81234765 | jalan puncak no 3     | 678912351 | 123240240   | 123456795 | stasiun tugu | 06.00 | 2024-11-24 |
| 123240236   | 123456791 | 20304052  | 85543678 | jalan teladan no 1    | 678912351 | 123240240   | 123456795 | stasiun tugu | 06.00 | 2024-11-24 |
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225 rows in set (0.002 sec)

4. Tabel Tiket dengan Tabel Penumpang

Query:

```
> SELECT * FROM tbpenumpang AS penumpang
CROSS JOIN tbtiket AS tiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbpenumpang AS penumpang
    -> CROSS JOIN tbtiket AS tiket;
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123240234	123456789	20304050	85123456	jalan jayamahe no 7	1234567101	1	70000	eksklusif	yogyakarta
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123240236	123456791	20304052	85543678	jalan teladan no 1	1234567101	1	70000	eksklusif	yogyakarta
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123240236	123456791	20304052	85543678	jalan teladan no 1	1234567103	1	50000	reguler	yogyakarta
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123240247	1234567102	20304063	88153842	jalan cempaka no 17	1234567103	1	50000	reguler	yogyakarta
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123240247	1234567102	20304063	88153842	jalan cempaka no 17	123456792	1	70000	eksklusif	yogyakarta
123240247	1234567102	20304063	88153842	jalan cempaka no 17	123456793	1	30000	ekonomi	yogyakarta
123240247	1234567102	20304063	88153842	jalan cempaka no 17	123456794	1	50000	reguler	yogyakarta
123240247	1234567102	20304063	88153842	jalan cempaka no 17	123456795	1	50000	reguler	yogyakarta
123240247	1234567102	20304063	88153842	jalan cempaka no 17	123456796	1	70000	eksklusif	yogyakarta
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123240247	1234567102	20304063	88153842	jalan cempaka no 17	123456798	1	30000	ekonomi	yogyakarta
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123240248	1234567103	20304064	83157856	jalan hore no 8	123456793	1	30000	ekonomi	yogyakarta
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123240248	1234567103	20304064	83157856	jalan hore no 8	123456799	1	50000	reguler	yogyakarta

225 rows in set (0.002 sec)

5. Tabel Tiket dengan Tabel Jadwal

Query:

```
> SELECT *FROM tbjadwal AS jadwal
CROSS JOIN tbtiket AS tiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT *FROM tbjadwal AS jadwal
    -> CROSS JOIN tbtiket AS tiket;
```

id_jadwal	id_penumpang	id_tiket	stasiun	jam	tanggal	id_tiket	jumlah	harga	jenis	tujuan
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	1234567100	1	30000	ekonomi	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	1234567101	1	70000	eksklusif	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	1234567102	1	30000	ekonomi	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	1234567103	1	50000	reguler	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	123456789	1	50000	reguler	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	123456790	1	50000	reguler	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	123456791	1	30000	ekonomi	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	123456792	1	70000	eksklusif	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	123456793	1	30000	ekonomi	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	123456794	1	50000	reguler	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	123456795	1	50000	reguler	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	123456796	1	70000	eksklusif	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	123456797	1	30000	ekonomi	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	123456798	1	30000	ekonomi	yogyakarta
678912345	123240234	123456789	stasiun tugu	06.00	2024-11-24	123456799	1	50000	reguler	yogyakarta
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678912346	123240235	123456790	stasiun tugu	06.00	2024-11-24	1234567101	1	70000	eksklusif	yogyakarta
678912346	123240235	123456790	stasiun tugu	06.00	2024-11-24	1234567102	1	30000	ekonomi	yogyakarta
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678912346	123240235	123456790	stasiun tugu	06.00	2024-11-24	123456792	1	70000	eksklusif	yogyakarta
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678912358	123240247	1234567102	stasiun tugu	06.00	2024-11-24	123456792	1	70000	eksklusif	yogyakarta
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678912359	123240248	1234567103	stasiun tugu	06.00	2024-11-24	123456792	1	70000	eksklusif	yogyakarta
678912359	123240248	1234567103	stasiun tugu	06.00	2024-11-24	123456793	1	30000	ekonomi	yogyakarta
678912359	123240248	1234567103	stasiun tugu	06.00	2024-11-24	123456794	1	50000	reguler	yogyakarta
678912359	123240248	1234567103	stasiun tugu	06.00	2024-11-24	123456795	1	50000	reguler	yogyakarta
678912359	123240248	1234567103	stasiun tugu	06.00	2024-11-24	123456796	1	70000	eksklusif	yogyakarta
678912359	123240248	1234567103	stasiun tugu	06.00	2024-11-24	123456797	1	30000	ekonomi	yogyakarta
678912359	123240248	1234567103	stasiun tugu	06.00	2024-11-24	123456798	1	30000	ekonomi	yogyakarta
678912359	123240248	1234567103	stasiun tugu	06.00	2024-11-24	123456799	1	50000	reguler	yogyakarta

225 rows in set (0.002 sec)

B. Inner Join

1. Tabel Penumpang dan Tabel Tiket

Query:

```
> SELECT * FROM tbpenumpang AS penumpang INNER JOIN tbpetugas AS petugas
ON  penumpang.id_petugas = petugas.id_petugas;
```

Hasil Query:

```
MariaDB [db_stasiun]>
MariaDB [db_stasiun]> SELECT *FROM tbpenumpang AS penumpang
    -> INNER JOIN tbpetugas AS petugas
    -> ON  penumpang.id_petugas = petugas.id_petugas;
+---------------+---------+---------+---------+---------------------+---------+---------+---------+---------------------+
| id_penumpang | id_tiket | id_petugas | telepon | alamat              | id_petugas | nama | telepon | alamat              |
+---------------+---------+---------+---------+---------------------+---------+---------+---------+---------------------+
| 123240234 | 1234567789 | 20304050 | 85123456 | jalan jayasuka no 7 | 20304050 | alip | 85123456 | jalan jayasuka no 7 |
| 123240235 | 1234567790 | 20304051 | 81234765 | jalan puncak no 3   | 20304051 | ipah | 81234765 | jalan puncak no 3   |
| 123240236 | 1234567791 | 20304052 | 85543578 | jalan teladan no 1  | 20304052 | ali  | 85543578 | jalan teladan no 1  |
| 123240237 | 1234567792 | 20304053 | 81870450 | jalan proteksi no 4 | 20304053 | irul | 81870450 | jalan proteksi no 4 |
| 123240238 | 1234567793 | 20304054 | 87534678 | jalan perjuangan no 2 | 20304054 | amar | 87534678 | jalan perjuangan no 2 |
| 123240239 | 1234567794 | 20304055 | 88765980 | jalan baharsari no 1 | 20304055 | ivn  | 88765980 | jalan baharsari no 1 |
| 123240240 | 1234567795 | 20304056 | 89065421 | jalan gembira no 10 | 20304056 | karin | 89065421 | jalan gembira no 10 |
| 123240241 | 1234567796 | 20304057 | 82534080 | jalan veteran no 13 | 20304057 | vania | 82534080 | jalan veteran no 13 |
| 123240242 | 1234567797 | 20304058 | 83021876 | jalan Proklamasi no 9 | 20304058 | alua | 83021876 | jalan proklamasi no 9 |
| 123240243 | 1234567798 | 20304059 | 87551680 | jalan mawar no 18   | 20304059 | nahdia | 87551680 | jalan mawar no 18   |
| 123240244 | 1234567799 | 20304060 | 86988654 | jalan biru no 3     | 20304060 | dhera | 86988654 | jalan biru no 3     |
| 123240245 | 1234567100 | 20304061 | 88152730 | jalan teknik no 4   | 20304061 | puput | 88152730 | jalan teknik no 4   |
| 123240246 | 1234567101 | 20304062 | 86014653 | jalan jasti no 15   | 20304062 | salsa | 86014653 | jalan jasti no 15   |
| 123240247 | 1234567102 | 20304063 | 88153842 | jalan cempaka no 17 | 20304063 | jelita | 88153842 | jalan cempaka no 17 |
| 123240248 | 1234567103 | 20304064 | 85157856 | jalan kore no 8     |
|  | 20304064 | vana | 85157856 | jalan kore no 8     |
+---------------+---------+---------+---------+---------------------+---------+---------+---------+---------------------+
16 rows in set (0.000 sec)
```

2. Tabel Kereta dan Tabel Jadwal

Query:

```
> SELECT * FROM tbkereta AS kereta INNER JOIN tbjadwal AS jadwal ON
kereta.id_jadwal = jadwal.id_jadwal;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbkereta AS kereta
    -> INNER JOIN tbjadwal AS jadwal
    -> ON kereta.id_jadwal = jadwal.id_jadwal;
+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+
| id_kereta | id_jadwal | rute | kursi | gerbong | id_jadwal | id_penumpang | id_tiket | stasiun | jam | tanggal |
+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+
| 987654311 | 678912345 | stasiun tugu | 1 | 1 | 678912345 | 123240234 | 1234567789 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654312 | 678912346 | stasiun tugu | 2 | 1 | 678912346 | 123240235 | 1234567790 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654313 | 678912347 | stasiun tugu | 3 | 1 | 678912347 | 123240236 | 1234567791 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654314 | 678912348 | stasiun tugu | 4 | 1 | 678912348 | 123240237 | 1234567792 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654315 | 678912349 | stasiun tugu | 5 | 1 | 678912349 | 123240238 | 1234567793 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654316 | 678912350 | stasiun tugu | 6 | 1 | 678912350 | 123240239 | 1234567794 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654317 | 678912351 | stasiun tugu | 7 | 1 | 678912351 | 123240240 | 1234567795 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654318 | 678912352 | stasiun tugu | 8 | 1 | 678912352 | 123240241 | 1234567796 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654319 | 678912353 | stasiun tugu | 9 | 1 | 678912353 | 123240242 | 1234567797 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654320 | 678912354 | stasiun tugu | 10 | 1 | 678912354 | 123240243 | 1234567798 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654321 | 678912355 | stasiun tugu | 11 | 1 | 678912355 | 123240244 | 1234567799 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654322 | 678912356 | stasiun tugu | 12 | 1 | 678912356 | 123240245 | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654323 | 678912357 | stasiun tugu | 13 | 1 | 678912357 | 123240246 | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654324 | 678912358 | stasiun tugu | 14 | 1 | 678912358 | 123240247 | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654325 | 678912359 | stasiun tugu | 15 | 1 | 678912359 | 123240248 | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 |
+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+
15 rows in set (0.001 sec)
```

3. Tabel Penumpang Tabel Jadwal

Query:

```
> SELECT * FROM tbjadwal AS jadwal INNER JOIN  tbpenumpang AS penumpang ON
jadwal.id_penumpang = penumpang.id_penumpang;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT *FROM tbjadwal AS jadwal
    -> INNER JOIN  tbpenumpang AS penumpang
    -> ON jadwal.id_penumpang = penumpang.id_penumpang;
+-----------+-------------+----------+-----------+------+------------+-------------+----------+-----------+-----------+-----------+
| id_jadwal | id_penumpang | id_tiket | stasiun   | jam  | tanggal    | id_penumpang | id_tiket | id_petugas | telepon   | alamat    |
+-----------+-------------+----------+-----------+------+------------+-------------+----------+-----------+-----------+-----------+
| 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 | 123240234   | 123456789 | 20304050  | 85123456  | jalan jayamaha no 7 |
| 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 | 123240235   | 123456790 | 20304051  | 81234705  | jalan puncak no 3 |
| 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 | 123240236   | 123456791 | 20304052  | 85543678  | jalan teladan no 1 |
| 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 | 123240237   | 123456792 | 20304053  | 81876456  | jalan prestasi no 4 |
| 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 | 123240238   | 123456793 | 20304054  | 87534678  | jalan perjuangan no 2 |
| 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 | 123240239   | 123456794 | 20304055  | 80705500  | jalan bebarsari no 1 |
| 678912351 | 123240240   | 123456795 | stasiun tugu | 06.00 | 2024-11-24 | 123240240   | 123456795 | 20304056  | 89065431  | jalan gembira no 10 |
| 678912352 | 123240241   | 123456796 | stasiun tugu | 06.00 | 2024-11-24 | 123240241   | 123456796 | 20304057  | 82534900  | jalan veteran no 13 |
| 678912353 | 123240242   | 123456797 | stasiun tugu | 06.00 | 2024-11-24 | 123240242   | 123456797 | 20304058  | 83021076  | Jalan Proklamasi no 9 |
| 678912354 | 123240243   | 123456798 | stasiun tugu | 06.00 | 2024-11-24 | 123240243   | 123456798 | 20304059  | 87531600  | jalan mawar no 10 |
| 678912355 | 123240244   | 123456799 | stasiun tugu | 06.00 | 2024-11-24 | 123240244   | 123456799 | 20304060  | 86908654  | jalan biru no 3 |
| 678912356 | 123240245   | 123456700 | stasiun tugu | 06.00 | 2024-11-24 | 123240245   | 123456700 | 20304061  | 80152739  | jalan teknik no 4 |
| 678912357 | 123240246   | 123456701 | stasiun tugu | 06.00 | 2024-11-24 | 123240246   | 123456701 | 20304062  | 86014653  | jalan janti no 15 |
| 678912358 | 123240247   | 123456702 | stasiun tugu | 06.00 | 2024-11-24 | 123240247   | 123456702 | 20304063  | 80153842  | jalan cempaka no 17 |
| 678912359 | 123240248   | 123456703 | stasiun tugu | 06.00 | 2024-11-24 | 123240248   | 123456703 | 20304064  | 83157856  | jalan hore no 8 |
+-----------+-------------+----------+-----------+------+------------+-------------+----------+-----------+-----------+-----------+
13 rows in set (0.001 sec)
```

4. Tabel penumpang dan tabel petugas

Query:

```
> SELECT * FROM tbpenumpang AS penumpang INNER JOIN tbpetugas AS petugas ON
penumpang.id_petugas = petugas.id_petugas;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbpenumpang AS penumpang
    -> INNER JOIN tbpetugas AS petugas
    -> ON penumpang.id_petugas = petugas.id_petugas;
+-------------+----------+-----------+----------+-----------+-----------+-----------+----------+-----------+
| id_penumpang | id_tiket | id_petugas | telepon | alamat    | id_petugas | nama      | telepon  | alamat    |
+-------------+----------+-----------+----------+-----------+-----------+-----------+----------+-----------+
| 123240234   | 123456789 | 20304050  | 85123456 | jalan jayamaha no 7 | 20304050  | alip      | 85123456 | jalan jayamaha no 7 |
| 123240235   | 123456790 | 20304051  | 81234705 | jalan puncak no 3 | 20304051  | ipah      | 81234705 | jalan puncak no 3 |
| 123240236   | 123456791 | 20304052  | 85543678 | jalan teladan no 1 | 20304052  | ali       | 85543678 | jalan teladan no 1 |
| 123240237   | 123456792 | 20304053  | 81876456 | jalan prestasi no 4 | 20304053  | irul      | 81876456 | jalan prestasi no 4 |
| 123240238   | 123456793 | 20304054  | 87534678 | jalan perjuangan no 2 | 20304054  | anwar     | 87534678 | jalan perjuangan no 2 |
| 123240239   | 123456794 | 20304055  | 80705500 | jalan bebarsari no 1 | 20304055  | ivan      | 80705500 | jalan bebarsari no 1 |
| 123240240   | 123456795 | 20304056  | 89065431 | jalan gembira no 10 | 20304056  | karin     | 89065431 | jalan gembira no 10 |
| 123240241   | 123456796 | 20304057  | 82534900 | jalan veteran no 13 | 20304057  | venia     | 82534900 | jalan veteran no 13 |
| 123240242   | 123456797 | 20304058  | 83021076 | Jalan Proklamasi no 9 | 20304058  | alca      | 83021076 | jalan proklamasi no 9 |
| 123240243   | 123456798 | 20304059  | 87531600 | jalan mawar no 10 | 20304059  | nehdia    | 87531600 | jalan mawar no 10 |
| 123240244   | 123456799 | 20304060  | 86908654 | jalan biru no 3 | 20304060  | akera     | 86908654 | jalan biru no 3 |
| 123240245   | 123456700 | 20304061  | 80152739 | jalan teknik no 4 | 20304061  | puput     | 80152739 | jalan teknik no 4 |
| 123240246   | 123456701 | 20304062  | 86014653 | jalan janti no 15 | 20304062  | salsa     | 86014653 | jalan janti no 15 |
| 123240247   | 123456702 | 20304063  | 80153842 | jalan cempaka no 17 | 20304063  | jelita    | 80153842 | jalan cempaka no 17 |
| 123240248   | 123456703 | 20304064  | 83157856 | jalan hore no 8 |
|             | 20304064  | vane      | 83157856 | jalan hore no 8 |
+-------------+----------+-----------+----------+-----------+-----------+-----------+----------+-----------+
13 rows in set (0.001 sec)
```

5. Tabel Jadwal dengan Tabel Tiket

Query:

```
> SELECT * FROM tbjadwal AS jadwal INNER JOIN tbtiket AS tiket ON
jadwal.id_tiket = tiket.id_tiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbjadwal AS jadwal
    -> INNER JOIN tbtiket AS tiket
    -> ON jadwal.id_tiket = tiket.id_tiket;
+----------+-------------+----------+-----------+-------+------------+----------+-------+-------+----------+-----------+
| id_jadwal | id_penumpang | id_tiket | stasiun   | jam   | tanggal    | id_tiket | jumlah | harga | jenis    | tujuan    |
+----------+-------------+----------+-----------+-------+------------+----------+-------+-------+----------+-----------+
| 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 | 123456789 | 1     | 50000 | reguler  | yogyakarta |
| 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 | 123456790 | 1     | 50000 | reguler  | yogyakarta |
| 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 | 123456791 | 1     | 30000 | ekonomi  | yogyakarta |
| 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 | 123456792 | 1     | 70000 | eksklusif | yogyakarta |
| 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 | 123456793 | 1     | 30000 | ekonomi  | yogyakarta |
| 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 | 123456794 | 1     | 50000 | reguler  | yogyakarta |
| 678912351 | 123240240   | 123456795 | stasiun tugu | 06.00 | 2024-11-24 | 123456795 | 1     | 50000 | reguler  | yogyakarta |
| 678912352 | 123240241   | 123456796 | stasiun tugu | 06.00 | 2024-11-24 | 123456796 | 1     | 70000 | eksklusif | yogyakarta |
| 678912353 | 123240242   | 123456797 | stasiun tugu | 06.00 | 2024-11-24 | 123456797 | 1     | 30000 | ekonomi  | yogyakarta |
| 678912354 | 123240243   | 123456798 | stasiun tugu | 06.00 | 2024-11-24 | 123456798 | 1     | 30000 | ekonomi  | yogyakarta |
| 678912355 | 123240244   | 123456799 | stasiun tugu | 06.00 | 2024-11-24 | 123456799 | 1     | 50000 | reguler  | yogyakarta |
| 678912356 | 123240245   | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 | 1234567100 | 1     | 30000 | ekonomi  | yogyakarta |
| 678912357 | 123240246   | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 | 1234567101 | 1     | 70000 | eksklusif | yogyakarta |
| 678912358 | 123240247   | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 | 1234567102 | 1     | 30000 | ekonomi  | yogyakarta |
| 678912359 | 123240248   | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 | 1234567103 | 1     | 50000 | reguler  | yogyakarta |
+----------+-------------+----------+-----------+-------+------------+----------+-------+-------+----------+-----------+
15 rows in set (0.001 sec)
```

C. Left Outer Join

1. Tabel Penumpang dengan Tabel Ttiket

Query:

```
> SELECT * FROM tbpenumpang AS penumpang LEFT JOIN tbtiket AS tiket ON
penumpang.id_tiket = tiket.id_tiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT *FROM tbpenumpang AS penumpang
    -> LEFT JOIN tbtiket AS tiket
    -> ON penumpang.id_tiket = tiket.id_tiket;
+-------------+----------+----------+----------+-----------------+----------+-------+-------+----------+-----------+
| id_penumpang | id_tiket | id_petugas | telepon | alamat          | id_tiket | jumlah | harga | jenis    | tujuan    |
+-------------+----------+----------+----------+-----------------+----------+-------+-------+----------+-----------+
| 123240234   | 123456789 | 20304050 | 85123456 | jalan jayamahe no 7 | 123456789 | 1     | 50000 | reguler  | yogyakarta |
| 123240235   | 123456790 | 20304051 | 81234785 | jalan puncak no 5   | 123456790 | 1     | 50000 | reguler  | yogyakarta |
| 123240236   | 123456791 | 20304052 | 85543678 | jalan teladan no 1  | 123456791 | 1     | 30000 | ekonomi  | yogyakarta |
| 123240237   | 123456792 | 20304053 | 81876456 | jalan prestasi no 4 | 123456792 | 1     | 70000 | eksklusif | yogyakarta |
| 123240238   | 123456793 | 20304054 | 87534678 | jalan perjuangan no 2 | 123456793 | 1     | 30000 | ekonomi  | yogyakarta |
| 123240239   | 123456794 | 20304055 | 80765300 | jalan bataircari no 1 | 123456794 | 1     | 50000 | reguler  | yogyakarta |
| 123240240   | 123456795 | 20304056 | 84465421 | jalan gembira no 10 | 123456795 | 1     | 50000 | reguler  | yogyakarta |
| 123240241   | 123456796 | 20304057 | 82534980 | jalan veteran no 13 | 123456796 | 1     | 70000 | eksklusif | yogyakarta |
| 123240242   | 123456797 | 20304058 | 83021876 | jalan Proklamasi no 9 | 123456797 | 1     | 30000 | ekonomi  | yogyakarta |
| 123240243   | 123456798 | 20304059 | 87531680 | jalan mawar no 10   | 123456798 | 1     | 30000 | ekonomi  | yogyakarta |
| 123240244   | 123456799 | 20304060 | 86908654 | jalan biru no 3     | 123456799 | 1     | 50000 | reguler  | yogyakarta |
| 123240245   | 1234567100 | 20304061 | 80152739 | jalan teknik no 4   | 1234567100 | 1     | 30000 | ekonomi  | yogyakarta |
| 123240246   | 1234567101 | 20304062 | 86014653 | jalan jasti no 15   | 1234567101 | 1     | 70000 | eksklusif | yogyakarta |
| 123240247   | 1234567102 | 20304063 | 88153842 | jalan cempaka no 17 | 1234567102 | 1     | 30000 | ekonomi  | yogyakarta |
| 123240248   | 1234567103 | 20304064 | 83157836 | jalan hore no 8     | 1234567103 | 1     | 50000 | reguler  | yogyakarta |
+-------------+----------+----------+----------+-----------------+----------+-------+-------+----------+-----------+
15 rows in set (0.001 sec)
```

2. Tabel Kereta dengan Tabel Jadwal

Query:

```
> SELECT * FROM tbkereta AS kereta LEFT OUTER JOIN tbjadwal AS jadwal ON
kereta.id_jadwal = jadwal.id_jadwal;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT*FROM tbkereta AS kereta
    -> LEFT OUTER JOIN tbjadwal AS jadwal
    -> ON kereta.id_jadwal = jadwal.id_jadwal;
+-----------+-----------+-----------+-------+---------+-----------+-----------+-----------+-----------+-------+-----------+
| id_kereta | id_jadwal | rute      | kursi | gerbong | id_jadwal | id_penumpang | id_tiket  | stasiun   | jam   | tanggal   |
+-----------+-----------+-----------+-------+---------+-----------+-----------+-----------+-----------+-------+-----------+
| 987654321 | 678912345 | stasiun tugu | 1     | 1       | 678912345 | 123240234 | 1234567789 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654322 | 678912346 | stasiun tugu | 2     | 1       | 678912346 | 123240235 | 1234567790 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654323 | 678912347 | stasiun tugu | 3     | 1       | 678912347 | 123240236 | 1234567791 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654324 | 678912348 | stasiun tugu | 4     | 1       | 678912348 | 123240237 | 1234567792 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654325 | 678912349 | stasiun tugu | 5     | 1       | 678912349 | 123240238 | 1234567793 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654326 | 678912350 | stasiun tugu | 6     | 1       | 678912350 | 123240239 | 1234567794 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654327 | 678912351 | stasiun tugu | 7     | 1       | 678912351 | 123240240 | 1234567795 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654328 | 678912352 | stasiun tugu | 8     | 1       | 678912352 | 123240241 | 1234567796 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654329 | 678912353 | stasiun tugu | 9     | 1       | 678912353 | 123240242 | 1234567797 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654330 | 678912354 | stasiun tugu | 10    | 1       | 678912354 | 123240243 | 1234567798 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654331 | 678912355 | stasiun tugu | 11    | 1       | 678912355 | 123240244 | 1234567799 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654332 | 678912356 | stasiun tugu | 12    | 1       | 678912356 | 123240245 | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654333 | 678912357 | stasiun tugu | 13    | 1       | 678912357 | 123240246 | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654334 | 678912358 | stasiun tugu | 14    | 1       | 678912358 | 123240247 | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 |
| 987654335 | 678912359 | stasiun tugu | 15    | 1       | 678912359 | 123240248 | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 |
+-----------+-----------+-----------+-------+---------+-----------+-----------+-----------+-----------+-------+-----------+
15 rows in set (0.003 sec)
```

3. Tabel Jadwal dengan Tabel Tiket

Query:

```
> SELECT * FROM tbtiket AS tiket LEFT OUTER JOIN tbpenumpang AS penumpang
ON tiket.id_tiket = penumpang.id_tiket;
```

Hasil Query:

```
MariaDB [(none)]> use db_stasiun;
Database changed
MariaDB [db_stasiun]> SELECT *FROM tbtiket AS tiket
    -> LEFT OUTER JOIN tbpenumpang AS penumpang
    -> ON tiket.id_tiket = penumpang.id_tiket;
+-----------+-------+-------+-------+-----------+-----------+-----------+-----------+-----------+-----------+
| id_tiket  | jumlah | harga | jenis | tujuan    | id_penumpang | id_tiket  | id_petugas | telepon   | alamat    |
+-----------+-------+-------+-------+-----------+-----------+-----------+-----------+-----------+-----------+
| 1234567100 | 1     | 30000 | ekonomi | yogyakarta | 123240241 | 1234567100 | 20304001 | 80152730 | jalan teknik no 4 |
| 1234567101 | 1     | 70000 | eksklusif | yogyakarta | 123240240 | 1234567101 | 20304002 | 88014053 | jalan janti no 15 |
| 1234567102 | 1     | 30000 | ekonomi | yogyakarta | 123240247 | 1234567102 | 20304003 | 88153041 | jalan cempaka no 37 |
| 1234567103 | 1     | 50000 | reguler | yogyakarta | 123240248 | 1234567103 | 20304004 | 83157856 | jalan hore no 8 |
| 123456784 | 1     | 50000 | reguler | yogyakarta | 123240234 | 123456784 | 20304060 | 85133456 | jalan jayamahe no 7 |
| 123456790 | 1     | 50000 | reguler | yogyakarta | 123240235 | 123456790 | 20304051 | 81234765 | jalan puncak no 5 |
| 123456791 | 1     | 30000 | ekonomi | yogyakarta | 123240236 | 123456791 | 20304052 | 85543678 | jalan teladan no 5 |
| 123456792 | 1     | 70000 | eksklusif | yogyakarta | 123240237 | 123456792 | 20304053 | 81876456 | jalan prestasi no 4 |
| 123456793 | 1     | 30000 | ekonomi | yogyakarta | 123240238 | 123456793 | 20304054 | 87534678 | jalan perjuangan no 2 |
| 123456794 | 1     | 50000 | reguler | yogyakarta | 123240239 | 123456794 | 20304055 | 88705980 | jalan bahasari no 1 |
| 123456795 | 1     | 50000 | reguler | yogyakarta | 123240240 | 123456795 | 20304056 | 80005431 | jalan gembira no 10 |
| 123456796 | 1     | 70000 | eksklusif | yogyakarta | 123240241 | 123456796 | 20304057 | 82534980 | jalan veteran no 33 |
| 123456797 | 1     | 30000 | ekonomi | yogyakarta | 123240242 | 123456797 | 20304058 | 83021876 | Jalan Proklamasi no 9 |
| 123456798 | 1     | 50000 | ekonomi | yogyakarta | 123240243 | 123456798 | 20304059 | 87531080 | jalan mawar no 18 |
| 123456799 | 1     | 50000 | reguler | yogyakarta | 123240244 | 123456799 | 20304060 | 80980054 | jalan biru no 3 |
+-----------+-------+-------+-------+-----------+-----------+-----------+-----------+-----------+-----------+
15 rows in set (0.007 sec)
```

4. Tabel Penumpang dengan Tabel Petugas

Query:

```
> SELECT * FROM tbpenumpang AS penumpang LEFT JOIN tbpetugas AS petugas ON
penumpang.id_petugas = petugas.id_petugas;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT*FROM tbpenumpang AS penumpang
    -> LEFT JOIN tbpetugas AS petugas
    -> ON penumpang.id_petugas = petugas.id_petugas;
+---------------+---------------+---------------+---------------+---------------------+---------------+---------------+---------------+---------------------+
| id_penumpang  | id_tiket      | id_petugas    | telepon       | alamat              | id_petugas    | nama          | telepon       | alamat              |
+---------------+---------------+---------------+---------------+---------------------+---------------+---------------+---------------+---------------------+
| 123240234     | 1234567899    |      20304050 | 85123456      | jalan jayamakmur no 7 |      20304050 | alip          | 85123456      | jalan jayamakmur no 7 |
| 123240235     | 1234567890    |      20304051 | 81234765      | jalan puncak no 3   |      20304051 | ipah          | 81234765      | jalan puncak no 3   |
| 123240236     | 1234567891    |      20304052 | 85943078      | jalan teledan no 1  |      20304052 | eli           | 85943078      | jalan teledan no 1  |
| 123240237     | 1234567892    |      20304053 | 81876456      | jalan prestasi no 4 |      20304053 | irul          | 81876456      | jalan prestasi no 4 |
| 123240238     | 1234567893    |      20304054 | 87534678      | jalan perjuangan no 2 |      20304054 | zenar         | 87534678      | jalan perjuangan no 2 |
| 123240239     | 1234567894    |      20304055 | 88765000      | jalan baharsari no 1 |      20304055 | ina           | 88765000      | jalan baharsari no 1 |
| 123240240     | 1234567895    |      20304056 | 89065431      | jalan gembira no 10 |      20304056 | karla         | 89065431      | jalan gembira no 10 |
| 123240241     | 1234567896    |      20304057 | 82534000      | jalan veteran no 13 |      20304057 | vanta         | 82534000      | jalan veteran no 13 |
| 123240242     | 1234567897    |      20304058 | 83021876      | jalan Proklamasi no 9 |      20304058 | alsa          | 83021876      | jalan proklamasi no 9 |
| 123240243     | 1234567898    |      20304059 | 87531000      | jalan mawar no 18   |      20304059 | nahdia        | 87531000      | jalan mawar no 18   |
| 123240244     | 1234567899    |      20304060 | 88988054      | jalan biru no 5     |      20304060 | dhera         | 88988054      | jalan biru no 5     |
| 123240245     | 1234567100    |      20304061 | 88152739      | jalan teknik no 4   |      20304061 | paput         | 88152739      | jalan teknik no 4   |
| 123240246     | 1234567101    |      20304062 | 86014653      | jalan janti no 15   |      20304062 | salsa         | 86014653      | jalan janti no 15   |
| 123240247     | 1234567102    |      20304063 | 88153842      | jalan cempaka no 17 |      20304063 | jelita        | 88153842      | jalan cempaka no 17 |
| 123240248     | 1234567103    |      20304064 | 83157856      | jalan hore no 8     |                                                                                |
|               |      20304064 | vana          | 83157856      | jalan hore no 8     |                                                                                |
+---------------+---------------+---------------+---------------+---------------------+---------------+---------------+---------------+---------------------+
15 rows in set (0.041 sec)
```

5. Tabel penumpang dengan Jadwal

Query:

```
> SELECT *FROM tbpenumpang AS penumpang LEFT JOIN tbjadwal AS jadwal ON
penumpang.id_penumpang = jadwal.id_penumpang;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT *FROM tbpenumpang AS penumpang LEFT JOIN tbjadwal AS jadwal ON penumpang.id_penumpang = jadwal.id_penumpang;
+---------------+---------------+---------------+---------------+---------------------+---------------+---------------+---------------+---------------+---------------+---------------+
| id_penumpang  | id_tiket      | id_petugas    | telepon       | alamat              | id_jadwal     | id_penumpang  | id_tiket      | stasiun       | jam           | tanggal       |
+---------------+---------------+---------------+---------------+---------------------+---------------+---------------+---------------+---------------+---------------+---------------+
| 123240234     | 1234567899    |      20304050 | 85123456      | jalan jayamakmur no 7 |     670812545 | 123240234     | 1234567899    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240235     | 1234567890    |      20304051 | 81234765      | jalan puncak no 3   |     670812546 | 123240235     | 1234567890    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240236     | 1234567891    |      20304052 | 85943078      | jalan teledan no 1  |     670812547 | 123240236     | 1234567891    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240237     | 1234567892    |      20304053 | 81876456      | jalan prestasi no 4 |     670812548 | 123240237     | 1234567892    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240238     | 1234567893    |      20304054 | 87534678      | jalan perjuangan no 2 |     670812549 | 123240238     | 1234567893    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240239     | 1234567894    |      20304055 | 88765000      | jalan baharsari no 1 |     670812550 | 123240239     | 1234567894    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240240     | 1234567895    |      20304056 | 89065431      | jalan gembira no 10 |     670812551 | 123240240     | 1234567895    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240241     | 1234567896    |      20304057 | 82534000      | jalan veteran no 13 |     670812552 | 123240241     | 1234567896    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240242     | 1234567897    |      20304058 | 83021876      | jalan Proklamasi no 9 |     670812553 | 123240242     | 1234567897    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240243     | 1234567898    |      20304059 | 87531000      | jalan mawar no 18   |     670812554 | 123240243     | 1234567898    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240244     | 1234567899    |      20304060 | 88988054      | jalan biru no 5     |     670812555 | 123240244     | 1234567899    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240245     | 1234567100    |      20304061 | 88152739      | jalan teknik no 4   |     670812556 | 123240245     | 1234567100    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240246     | 1234567101    |      20304062 | 86014653      | jalan janti no 15   |     670812557 | 123240246     | 1234567101    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240247     | 1234567102    |      20304063 | 88153842      | jalan cempaka no 17 |     670812558 | 123240247     | 1234567102    | stasiun tugu  | 06.00         | 2024-11-24    |
| 123240248     | 1234567103    |      20304064 | 83157856      | jalan hore no 8     |                                                                                |
|               |     670812559 | 123240248     | 1234567103    | stasiun tugu        | 06.00         | 2024-11-24    |
+---------------+---------------+---------------+---------------+---------------------+---------------+---------------+---------------+---------------+---------------+---------------+
15 rows in set (0.011 sec)
```

D. Right Outer Join

1. Tabel Penumpang dengan Tabel Ttiket

Query:

```
> SELECT * FROM tbtiket AS tiket RIGHT JOIN tbpenumpang AS penumpang ON
tiket.id_tiket = penumpang.id_tiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbtiket AS tiket
    -> RIGHT JOIN tbpenumpang AS penumpang
    -> ON tiket.id_tiket = penumpang.id_tiket;
+-----------+-------+-------+-------+---------+-----------+-----------+-----------+---------+---------+---------+---------+---------+---------+---------+
| id_tiket  | jumlah | harga | jenis | tujuan  | id_penumpang | id_tiket  | id_petugas | telepon | alamat |
+-----------+-------+-------+-------+---------+-----------+-----------+-----------+---------+---------+---------+---------+---------+---------+---------+
| 123456789 | 1     | 50000 | reguler | yogyakarta | 123240234 | 123456789 | 20304050  | 85123456 | jalan jaramaha no 7 |
| 123456790 | 1     | 50000 | reguler | yogyakarta | 123240235 | 123456790 | 20304051  | 81234765 | jalan puncak no 3 |
| 123456791 | 1     | 50000 | ekonomi | yogyakarta | 123240236 | 123456791 | 20304052  | 85943678 | jalan teladan no 1 |
| 123456792 | 1     | 70000 | eksklusif | yogyakarta | 123240237 | 123456792 | 20304053  | 81876456 | jalan prestasi no 4 |
| 123456793 | 1     | 30000 | ekonomi | yogyakarta | 123240238 | 123456793 | 20304054  | 87534678 | jalan perjuangan no 1 |
| 123456794 | 1     | 50000 | reguler | yogyakarta | 123240239 | 123456794 | 20304055  | 88765980 | jalan bangsari no 1 |
| 123456795 | 1     | 50000 | reguler | yogyakarta | 123240240 | 123456795 | 20304056  | 85065431 | jalan gambira no 10 |
| 123456796 | 1     | 70000 | eksklusif | yogyakarta | 123240241 | 123456796 | 20304057  | 82534980 | jalan veteran no 13 |
| 123456797 | 1     | 30000 | ekonomi | yogyakarta | 123240242 | 123456797 | 20304058  | 85021876 | jalan Proklamasi no 9 |
| 123456798 | 1     | 30000 | ekonomi | yogyakarta | 123240243 | 123456798 | 20304059  | 87531080 | jalan mawar no 10 |
| 123456799 | 1     | 50000 | reguler | yogyakarta | 123240244 | 123456799 | 20304060  | 86000654 | jalan biru no 1 |
| 1234567100 | 1     | 30000 | ekonomi | yogyakarta | 123240245 | 1234567100 | 20304061  | 88162730 | jalan teerik no 4 |
| 1234567101 | 1     | 70000 | eksklusif | yogyakarta | 123240246 | 1234567101 | 20304062  | 80014653 | jalan jawi no 15 |
| 1234567102 | 1     | 30000 | ekonomi | yogyakarta | 123240247 | 1234567102 | 20304063  | 88153842 | jalan campaka no 17 |
| 1234567103 | 1     | 50000 | reguler | yogyakarta | 123240248 | 1234567103 | 20304064  | 83157016 | jalan nora no 8 |
+-----------+-------+-------+-------+---------+-----------+-----------+-----------+---------+---------+---------+---------+---------+---------+---------+
15 rows in set (0.001 sec)
```

2. Tabel Kereta dengan Tabel Jadwal

Query:

```
> SELECT * FROM tbkereta AS kereta RIGHT JOIN tbjadwal AS jadwal ON
kereta.id_jadwal = jadwal.id_jadwal;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbkereta AS kereta
    -> RIGHT JOIN tbjadwal AS jadwal
    -> ON kereta.id_jadwal = jadwal.id_jadwal;
+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+
| id_kereta | id_jadwal | rute      | kursi     | gerbong   | id_jadwal | id_penumpang | id_tiket  | stasiun   | jam       | tanggal   |
+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+
| 987654321 | 678912345 | stasiun tugu | 1 | 1 | 678912345 | 123240234 | 123456789 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654322 | 678912346 | stasiun tugu | 2 | 1 | 678912346 | 123240235 | 123456790 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654323 | 678912347 | stasiun tugu | 3 | 1 | 678912347 | 123240236 | 123456791 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654324 | 678912348 | stasiun tugu | 4 | 1 | 678912348 | 123240237 | 123456792 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654325 | 678912349 | stasiun tugu | 5 | 1 | 678912349 | 123240238 | 123456793 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654326 | 678912350 | stasiun tugu | 6 | 1 | 678912350 | 123240239 | 123456794 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654327 | 678912351 | stasiun tugu | 7 | 1 | 678912351 | 123240240 | 123456795 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654328 | 678912352 | stasiun tugu | 8 | 1 | 678912352 | 123240241 | 123456796 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654329 | 678912353 | stasiun tugu | 9 | 1 | 678912353 | 123240242 | 123456797 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654330 | 678912354 | stasiun tugu | 10 | 1 | 678912354 | 123240243 | 123456798 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654331 | 678912355 | stasiun tugu | 11 | 1 | 678912355 | 123240244 | 123456799 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654332 | 678912356 | stasiun tugu | 12 | 1 | 678912356 | 123240245 | 1234567100 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654333 | 678912357 | stasiun tugu | 13 | 1 | 678912357 | 123240246 | 1234567101 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654334 | 678912358 | stasiun tugu | 14 | 1 | 678912358 | 123240247 | 1234567102 | stasiun tugu | 00.00 | 2024-11-14 |
| 987654335 | 678912359 | stasiun tugu | 15 | 1 | 678912359 | 123240248 | 1234567103 | stasiun tugu | 00.00 | 2024-11-14 |
+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+
15 rows in set (0.011 sec)
```

3. Tabel Jadwal dengan Tiket Tiket

Query:

```
> SELECT * FROM tbtiket AS tiket RIGHT JOIN tbjadwal AS jadwal ON
tiket.id_tiket = jadwal.id_tiket;
```

Hasil Query:

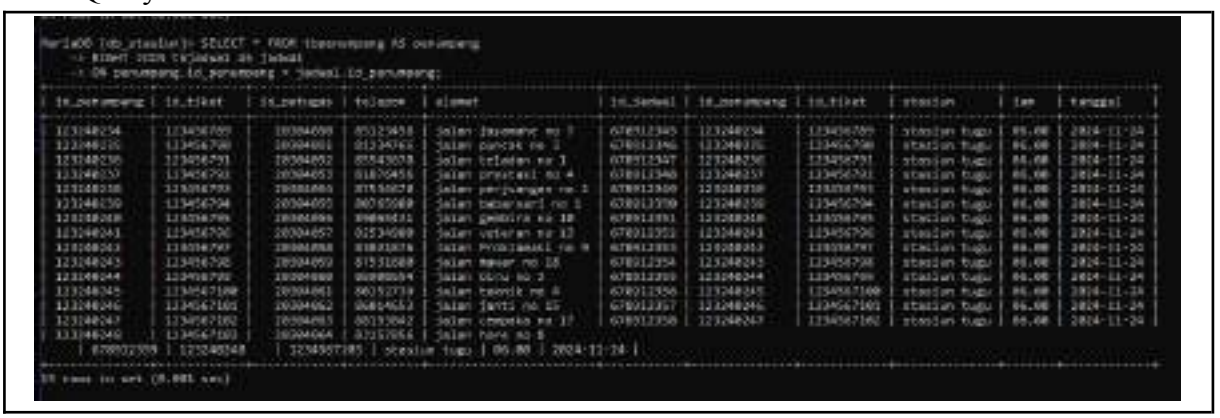
```
MariaDB [db_stasiun]> SELECT * FROM tbtiket AS tiket
    -> RIGHT JOIN tbjadwal AS jadwal
    -> ON tiket.id_tiket = jadwal.id_tiket;
+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+
| id_tiket  | jumlah    | harga     | jenis     | tujuan    | id_jadwal | id_penumpang | id_tiket  | stasiun   | jam       | tanggal   |
+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+
| 123456789 | 1         | 50000     | reguler   | yogyakarta | 678912345 | 123240234 | 123456789 | stasiun tugu | 00.00 | 2024-11-14 |
| 123456790 | 1         | 50000     | reguler   | yogyakarta | 678912346 | 123240235 | 123456790 | stasiun tugu | 00.00 | 2024-11-14 |
| 123456791 | 1         | 50000     | ekonomi   | yogyakarta | 678912347 | 123240236 | 123456791 | stasiun tugu | 00.00 | 2024-11-14 |
| 123456792 | 1         | 70000     | eksklusif | yogyakarta | 678912348 | 123240237 | 123456792 | stasiun tugu | 00.00 | 2024-11-14 |
| 123456793 | 1         | 30000     | ekonomi   | yogyakarta | 678912349 | 123240238 | 123456793 | stasiun tugu | 00.00 | 2024-11-14 |
| 123456794 | 1         | 50000     | reguler   | yogyakarta | 678912350 | 123240239 | 123456794 | stasiun tugu | 00.00 | 2024-11-14 |
| 123456795 | 1         | 50000     | reguler   | yogyakarta | 678912351 | 123240240 | 123456795 | stasiun tugu | 00.00 | 2024-11-14 |
| 123456796 | 1         | 70000     | eksklusif | yogyakarta | 678912352 | 123240241 | 123456796 | stasiun tugu | 00.00 | 2024-11-14 |
| 123456797 | 1         | 30000     | ekonomi   | yogyakarta | 678912353 | 123240242 | 123456797 | stasiun tugu | 00.00 | 2024-11-14 |
| 123456798 | 1         | 30000     | ekonomi   | yogyakarta | 678912354 | 123240243 | 123456798 | stasiun tugu | 00.00 | 2024-11-14 |
| 123456799 | 1         | 50000     | reguler   | yogyakarta | 678912355 | 123240244 | 123456799 | stasiun tugu | 00.00 | 2024-11-14 |
| 1234567100 | 1         | 30000     | ekonomi   | yogyakarta | 678912356 | 123240245 | 1234567100 | stasiun tugu | 00.00 | 2024-11-14 |
| 1234567101 | 1         | 70000     | eksklusif | yogyakarta | 678912357 | 123240246 | 1234567101 | stasiun tugu | 00.00 | 2024-11-14 |
| 1234567102 | 1         | 30000     | ekonomi   | yogyakarta | 678912358 | 123240247 | 1234567102 | stasiun tugu | 00.00 | 2024-11-14 |
| 1234567103 | 1         | 50000     | reguler   | yogyakarta | 678912359 | 123240248 | 1234567103 | stasiun tugu | 00.00 | 2024-11-14 |
+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+-----------+
15 rows in set (0.001 sec)
```

4. Tabel Penumpang dengan Tabel Jadwal

Query:

```
> SELECT * FROM tbpenumpang AS penumpang RIGHT JOIN tbjadwal AS jadwal ON
penumpang.id_penumpang = jadwal.id_penumpang;
```

Hasil Query:

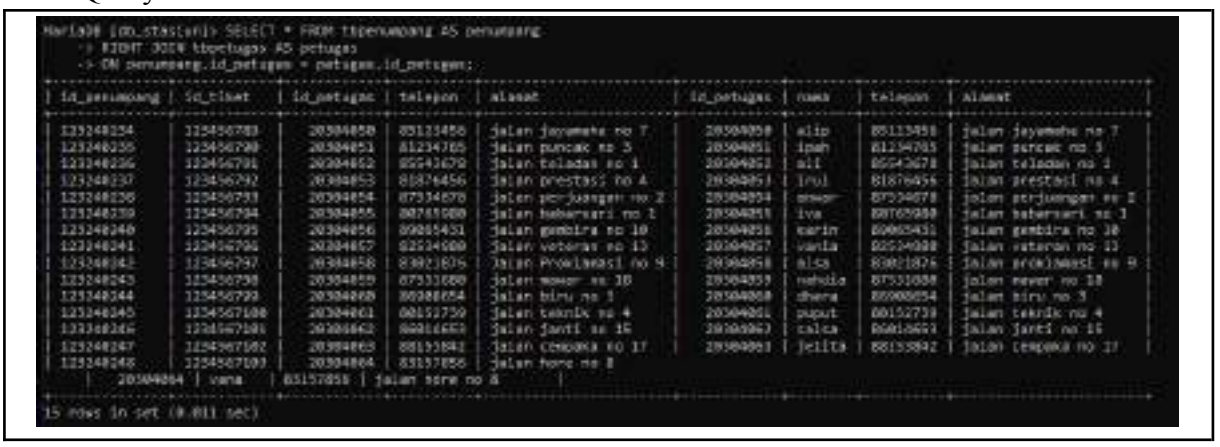


5. Tabel Penumpang dengan Tabel Petugas

Query:

```
> SELECT * FROM tbpenumpang AS penumpang RIGHT JOIN tbpetugas AS petugas ON
penumpang.id_petugas = petugas.id_petugas;
```

Hasil Query:



E. Full Outer Join

1. Tabel Penumpang dengan Tabel Tiket

Query:

```
> SELECT * FROM tbpenumpang AS penumpang LEFT JOIN tbtiket AS tiket ON
penumpang.id_tiket = tiket.id_tiket UNION SELECT * FROM tbpenumpang AS
penumpang RIGHT JOIN tbtiket AS tiket ON penumpang.id_tiket =
tiket.id_tiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbpenumpang AS penumpang
    -> LEFT JOIN tbtiket AS tiket
    -> ON penumpang.id_tiket = tiket.id_tiket UNION
    -> SELECT * FROM tbpenumpang AS penumpang
    -> RIGHT JOIN tbtiket AS tiket
    -> ON penumpang.id_tiket = tiket.id_tiket;
+-------------+-----------+-----------+----------+---------------------+-----------+---------+--------+----------+-----------+
| id_penumpang | id_tiket  | id_petugas | telepon  | alamat              | id_tiket  | jumlah | harga  | jenis    | tujuan    |
+-------------+-----------+-----------+----------+---------------------+-----------+---------+--------+----------+-----------+
| 123240034   | 123456789 | 20304050  | 81133456 | jalan jayawane no 7 | 123456789 | 1       | 50000  | reguler  | yogyakarta |
| 123240035   | 123456790 | 20304051  | 81234705 | jalan puncak no 5   | 123456790 | 1       | 50000  | reguler  | yogyakarta |
| 123240036   | 123456791 | 20304052  | 85543670 | jalan taladan no 1  | 123456791 | 1       | 30000  | ekonomi  | yogyakarta |
| 123240037   | 123456792 | 20304053  | 81876435 | jalan prostasi no 4 | 123456792 | 1       | 70000  | eksklusif | yogyakarta |
| 123240038   | 123456793 | 20304054  | 87534670 | jalan perjuangan no 2 | 123456793 | 1       | 30000  | ekonomi  | yogyakarta |
| 123240039   | 123456794 | 20304055  | 88765980 | jalan bakarsari no 1 | 123456794 | 1       | 50000  | reguler  | yogyakarta |
| 123240040   | 123456795 | 20304056  | 89065431 | jalan gemsira no 10  | 123456795 | 1       | 50000  | reguler  | yogyakarta |
| 123240041   | 123456796 | 20304057  | 81534980 | jalan veteran no 13  | 123456796 | 1       | 70000  | eksklusif | yogyakarta |
| 123240042   | 123456797 | 20304058  | 83021876 | Jalan Proklamasi no 8 | 123456797 | 1       | 50000  | ekonomi  | yogyakarta |
| 123240043   | 123456798 | 20304059  | 87531680 | jalan mawar no 18    | 123456798 | 1       | 30000  | ekonomi  | yogyakarta |
| 123240044   | 123456799 | 20304060  | 86080054 | jalan biru no 1      | 123456799 | 1       | 50000  | reguler  | yogyakarta |
| 123240045   | 123456700 | 20304061  | 88153739 | jalan teknik no 4    | 123456700 | 1       | 30000  | ekonomi  | yogyakarta |
| 123240046   | 123456701 | 20304062  | 86014055 | jalan janti no 15    | 123456701 | 1       | 70000  | eksklusif | yogyakarta |
| 123240047   | 123456702 | 20304063  | 88113042 | jalan remjaka no 17  | 123456702 | 1       | 30000  | ekonomi  | yogyakarta |
| 123240048   | 123456703 | 20304064  | 85157056 | jalan tere no 8      |
| 123456703 | 1 | 50000 | reguler | yogyakarta |
+-------------+-----------+-----------+----------+---------------------+-----------+---------+--------+----------+-----------+
15 rows in set (0.015 sec)
```

2. Tabel Kereta dengan Tabel Jadwal

Query:

```
> SELECT * FROM tbjadwal AS jadwal LEFT JOIN tbkereta AS kereta ON
jadwal.id_jadwal = kereta.id_jadwal UNION SELECT * FROM tbjadwal AS jadwal
RIGHT JOIN tbkereta AS kereta ON jadwal.id_jadwal = kereta.id_jadwal;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbjadwal AS jadwal
    -> LEFT JOIN tbkereta AS kereta
    -> ON jadwal.id_jadwal = kereta.id_jadwal UNION
    -> SELECT * FROM tbjadwal AS jadwal
    -> RIGHT JOIN tbkereta AS kereta
    -> ON jadwal.id_jadwal = kereta.id_jadwal;
+-----------+-------------+-----------+----------+------+-----------+-----------+-----------+-----------+-----------+-----------+
| id_jadwal | id_penumpang | id_tiket  | stasiun  | jam  | tanggal   | id_kereta | id_jadwal | rute      | kursi | gerbong |
+-----------+-------------+-----------+----------+------+-----------+-----------+-----------+-----------+-----------+-----------+
| 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 | 987654321 | 678912345 | stasiun tugu | 1     | 1       |
| 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 | 987654322 | 678912346 | stasiun tugu | 2     | 1       |
| 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 | 987654323 | 678912347 | stasiun tugu | 3     | 1       |
| 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 | 987654324 | 678912348 | stasiun tugu | 4     | 1       |
| 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 | 987654325 | 678912349 | stasiun tugu | 5     | 1       |
| 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 | 987654326 | 678912350 | stasiun tugu | 6     | 1       |
| 678912351 | 123240240   | 123456795 | stasiun tugu | 06.00 | 2024-11-24 | 987654327 | 678912351 | stasiun tugu | 7     | 1       |
| 678912352 | 123240241   | 123456796 | stasiun tugu | 06.00 | 2024-11-24 | 987654328 | 678912352 | stasiun tugu | 8     | 1       |
| 678912353 | 123240242   | 123456797 | stasiun tugu | 06.00 | 2024-11-24 | 987654329 | 678912353 | stasiun tugu | 9     | 1       |
| 678912354 | 123240243   | 123456798 | stasiun tugu | 06.00 | 2024-11-24 | 987654330 | 678912354 | stasiun tugu | 10    | 1       |
| 678912355 | 123240244   | 123456799 | stasiun tugu | 06.00 | 2024-11-24 | 987654331 | 678912355 | stasiun tugu | 11    | 1       |
| 678912356 | 123240245   | 123456700 | stasiun tugu | 06.00 | 2024-11-24 | 987654332 | 678912356 | stasiun tugu | 12    | 1       |
| 678912357 | 123240246   | 123456701 | stasiun tugu | 06.00 | 2024-11-24 | 987654333 | 678912357 | stasiun tugu | 13    | 1       |
| 678912358 | 123240247   | 123456702 | stasiun tugu | 06.00 | 2024-11-24 | 987654334 | 678912358 | stasiun tugu | 14    | 1       |
| 678912359 | 123240248   | 123456703 | stasiun tugu | 06.00 | 2024-11-24 | 987654335 | 678912359 | stasiun tugu | 15    | 1       |
+-----------+-------------+-----------+----------+------+-----------+-----------+-----------+-----------+-----------+-----------+
15 rows in set (0.002 sec)

MariaDB [db_stasiun]> SELECT * FROM tbjadwal AS jadwal
    -> LEFT JOIN tbtiket AS tiket
    -> ON jadwal.id_tiket = tiket.id_tiket UNION
    -> SELECT * FROM tbjadwal AS jadwal
    -> RIGHT JOIN tbtiket AS tiket
    -> ON jadwal.id_tiket = tiket.id_tiket;
+-----------+-------------+-----------+----------+------+-----------+-----------+---------+--------+----------+-----------+
| id_jadwal | id_penumpang | id_tiket  | stasiun  | jam  | tanggal   | id_tiket  | jumlah | harga  | jenis    | tujuan    |
+-----------+-------------+-----------+----------+------+-----------+-----------+---------+--------+----------+-----------+
| 678912345 | 123240234   | 123456789 | stasiun tugu | 06.00 | 2024-11-24 | 123456789 | 1       | 50000  | reguler  | yogyakarta |
| 678912346 | 123240235   | 123456790 | stasiun tugu | 06.00 | 2024-11-24 | 123456790 | 1       | 50000  | reguler  | yogyakarta |
| 678912347 | 123240236   | 123456791 | stasiun tugu | 06.00 | 2024-11-24 | 123456791 | 1       | 30000  | ekonomi  | yogyakarta |
| 678912348 | 123240237   | 123456792 | stasiun tugu | 06.00 | 2024-11-24 | 123456792 | 1       | 70000  | eksklusif | yogyakarta |
| 678912349 | 123240238   | 123456793 | stasiun tugu | 06.00 | 2024-11-24 | 123456793 | 1       | 30000  | ekonomi  | yogyakarta |
| 678912350 | 123240239   | 123456794 | stasiun tugu | 06.00 | 2024-11-24 | 123456794 | 1       | 50000  | reguler  | yogyakarta |
| 678912351 | 123240240   | 123456795 | stasiun tugu | 06.00 | 2024-11-24 | 123456795 | 1       | 50000  | reguler  | yogyakarta |
| 678912352 | 123240241   | 123456796 | stasiun tugu | 06.00 | 2024-11-24 | 123456796 | 1       | 70000  | eksklusif | yogyakarta |
| 678912353 | 123240242   | 123456797 | stasiun tugu | 06.00 | 2024-11-24 | 123456797 | 1       | 30000  | ekonomi  | yogyakarta |
| 678912354 | 123240243   | 123456798 | stasiun tugu | 06.00 | 2024-11-24 | 123456798 | 1       | 30000  | ekonomi  | yogyakarta |
| 678912355 | 123240244   | 123456799 | stasiun tugu | 06.00 | 2024-11-24 | 123456799 | 1       | 50000  | reguler  | yogyakarta |
| 678912356 | 123240245   | 123456700 | stasiun tugu | 06.00 | 2024-11-24 | 123456700 | 1       | 30000  | ekonomi  | yogyakarta |
| 678912357 | 123240246   | 123456701 | stasiun tugu | 06.00 | 2024-11-24 | 123456701 | 1       | 70000  | eksklusif | yogyakarta |
| 678912358 | 123240247   | 123456702 | stasiun tugu | 06.00 | 2024-11-24 | 123456702 | 1       | 30000  | ekonomi  | yogyakarta |
| 678912359 | 123240248   | 123456703 | stasiun tugu | 06.00 | 2024-11-24 | 123456703 | 1       | 50000  | reguler  | yogyakarta |
+-----------+-------------+-----------+----------+------+-----------+-----------+---------+--------+----------+-----------+
15 rows in set (0.002 sec)
```

3. Tabel Jadwal dengan Tabel Tiket

Query:

```
> SELECT * FROM tbjadwal AS jadwal LEFT JOIN tbtiket AS tiket
ON jadwal.id_tiket = tiket.id_tiket UNION SELECT * FROM tbjadwal AS jadwal
RIGHT JOIN tbtiket AS tiket ON jadwal.id_tiket = tiket.id_tiket;
```

Hasil Query:

```
MariaDB [db_stasiun]> SELECT * FROM tbjadwal AS jadwal
    -> LEFT JOIN tbkereta AS kereta
    -> ON jadwal.id_jadwal = kereta.id_jadwal UNION
    -> SELECT * FROM tbjadwal AS jadwal
    -> RIGHT JOIN tbkereta AS kereta
    -> ON jadwal.id_jadwal = kereta.id_jadwal;
+-----------+---------------+-----------+---------+-------+------------+-----------+-----------+---------+---------+
| id_jadwal | id_penumpang  | id_tiket  | stasiun | jam   | tanggal    | id_kereta | id_jadwal | rute    | kursi   | gerbong |
+-----------+---------------+-----------+---------+-------+------------+-----------+-----------+---------+---------+
| 678012345 | 123248234     | 1234567890 | stasiun tugu | 06.00 | 2024-11-24 | 987654321 | 678012345 | stasiun tugu | 1 | 1 |
| 678012346 | 123248235     | 1234567890 | stasiun tugu | 06.00 | 2024-11-24 | 987654322 | 678012346 | stasiun tugu | 2 | 1 |
| 678012347 | 123248236     | 1234567891 | stasiun tugu | 06.00 | 2024-11-24 | 987654323 | 678012347 | stasiun tugu | 3 | 1 |
| 678012348 | 123248237     | 1234567892 | stasiun tugu | 06.00 | 2024-11-24 | 987654324 | 678012348 | stasiun tugu | 4 | 1 |
| 678012349 | 123248238     | 1234567893 | stasiun tugu | 06.00 | 2024-11-24 | 987654325 | 678012349 | stasiun tugu | 5 | 1 |
| 678012350 | 123248239     | 1234567894 | stasiun tugu | 06.00 | 2024-11-24 | 987654326 | 678012350 | stasiun tugu | 6 | 1 |
| 678012351 | 123248240     | 1234567895 | stasiun tugu | 06.00 | 2024-11-24 | 987654327 | 678012351 | stasiun tugu | 7 | 1 |
| 678012352 | 123248241     | 1234567896 | stasiun tugu | 06.00 | 2024-11-24 | 987654328 | 678012352 | stasiun tugu | 8 | 1 |
| 678012353 | 123248242     | 1234567897 | stasiun tugu | 06.00 | 2024-11-24 | 987654329 | 678012353 | stasiun tugu | 9 | 1 |
| 678012354 | 123248243     | 1234567898 | stasiun tugu | 06.00 | 2024-11-24 | 987654330 | 678012354 | stasiun tugu | 10 | 1 |
| 678012355 | 123248244     | 1234567899 | stasiun tugu | 06.00 | 2024-11-24 | 987654331 | 678012355 | stasiun tugu | 11 | 1 |
| 678012356 | 123248245     | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 | 987654332 | 678012356 | stasiun tugu | 12 | 1 |
| 678012357 | 123248246     | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 | 987654333 | 678012357 | stasiun tugu | 13 | 1 |
| 678012358 | 123248247     | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 | 987654334 | 678012358 | stasiun tugu | 14 | 1 |
| 678012359 | 123248248     | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 | 987654335 | 678012359 | stasiun tugu | 15 | 1 |
+-----------+---------------+-----------+---------+-------+------------+-----------+-----------+---------+---------+
15 rows in set (0.002 sec)

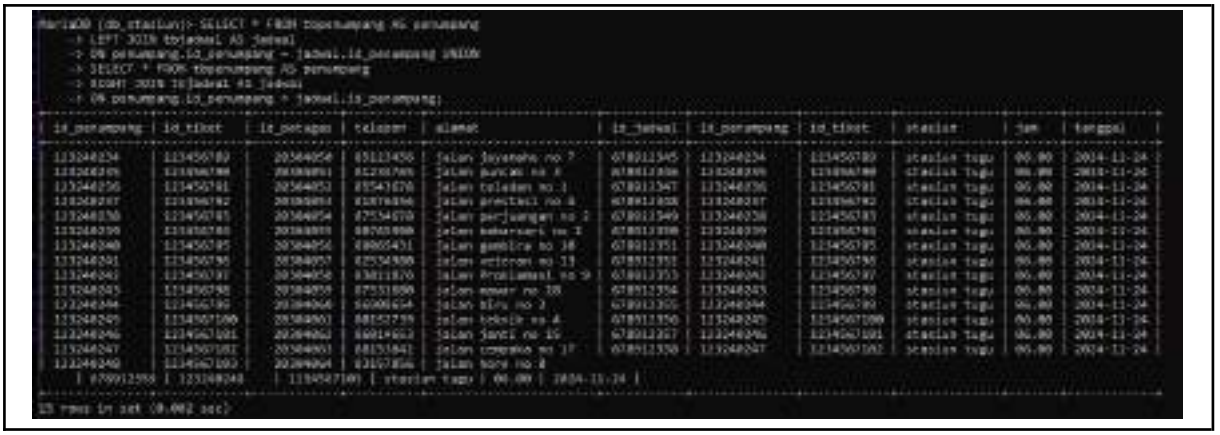
MariaDB [db_stasiun]> SELECT * FROM tbjadwal AS jadwal
    -> LEFT JOIN tbtiket AS tiket
    -> ON jadwal.id_tiket = tiket.id_tiket UNION
    -> SELECT * FROM tbjadwal AS jadwal
    -> RIGHT JOIN tbtiket AS tiket
    -> ON jadwal.id_tiket = tiket.id_tiket;
+-----------+---------------+-----------+---------+-------+------------+-----------+---------+---------+---------+---------+
| id_jadwal | id_penumpang  | id_tiket  | stasiun | jam   | tanggal    | id_tiket  | jumlah  | harga   | jenis   | tujuan  |
+-----------+---------------+-----------+---------+-------+------------+-----------+---------+---------+---------+---------+
| 678012345 | 123248234     | 1234567890 | stasiun tugu | 06.00 | 2024-11-24 | 1234567890 | 1 | 50000 | reguler | yogyakarta |
| 678012346 | 123248235     | 1234567890 | stasiun tugu | 06.00 | 2024-11-24 | 1234567890 | 1 | 50000 | reguler | yogyakarta |
| 678012347 | 123248236     | 1234567891 | stasiun tugu | 06.00 | 2024-11-24 | 1234567891 | 1 | 30000 | ekonomi | yogyakarta |
| 678012348 | 123248237     | 1234567892 | stasiun tugu | 06.00 | 2024-11-24 | 1234567892 | 1 | 70000 | eksklusif | yogyakarta |
| 678012349 | 123248238     | 1234567893 | stasiun tugu | 06.00 | 2024-11-24 | 1234567893 | 1 | 30000 | ekonomi | yogyakarta |
| 678012350 | 123248239     | 1234567894 | stasiun tugu | 06.00 | 2024-11-24 | 1234567894 | 1 | 50000 | reguler | yogyakarta |
| 678012351 | 123248240     | 1234567895 | stasiun tugu | 06.00 | 2024-11-24 | 1234567895 | 1 | 50000 | reguler | yogyakarta |
| 678012352 | 123248241     | 1234567896 | stasiun tugu | 06.00 | 2024-11-24 | 1234567896 | 1 | 70000 | eksklusif | yogyakarta |
| 678012353 | 123248242     | 1234567897 | stasiun tugu | 06.00 | 2024-11-24 | 1234567897 | 1 | 30000 | ekonomi | yogyakarta |
| 678012354 | 123248243     | 1234567898 | stasiun tugu | 06.00 | 2024-11-24 | 1234567898 | 1 | 30000 | ekonomi | yogyakarta |
| 678012355 | 123248244     | 1234567899 | stasiun tugu | 06.00 | 2024-11-24 | 1234567899 | 1 | 50000 | reguler | yogyakarta |
| 678012356 | 123248245     | 1234567100 | stasiun tugu | 06.00 | 2024-11-24 | 1234567100 | 1 | 30000 | ekonomi | yogyakarta |
| 678012357 | 123248246     | 1234567101 | stasiun tugu | 06.00 | 2024-11-24 | 1234567101 | 1 | 70000 | eksklusif | yogyakarta |
| 678012358 | 123248247     | 1234567102 | stasiun tugu | 06.00 | 2024-11-24 | 1234567102 | 1 | 30000 | ekonomi | yogyakarta |
| 678012359 | 123248248     | 1234567103 | stasiun tugu | 06.00 | 2024-11-24 | 1234567103 | 1 | 50000 | reguler | yogyakarta |
+-----------+---------------+-----------+---------+-------+------------+-----------+---------+---------+---------+---------+
15 rows in set (0.002 sec)
```

4. Tabel Penumpang dengan Tabel Jadwal

Query:

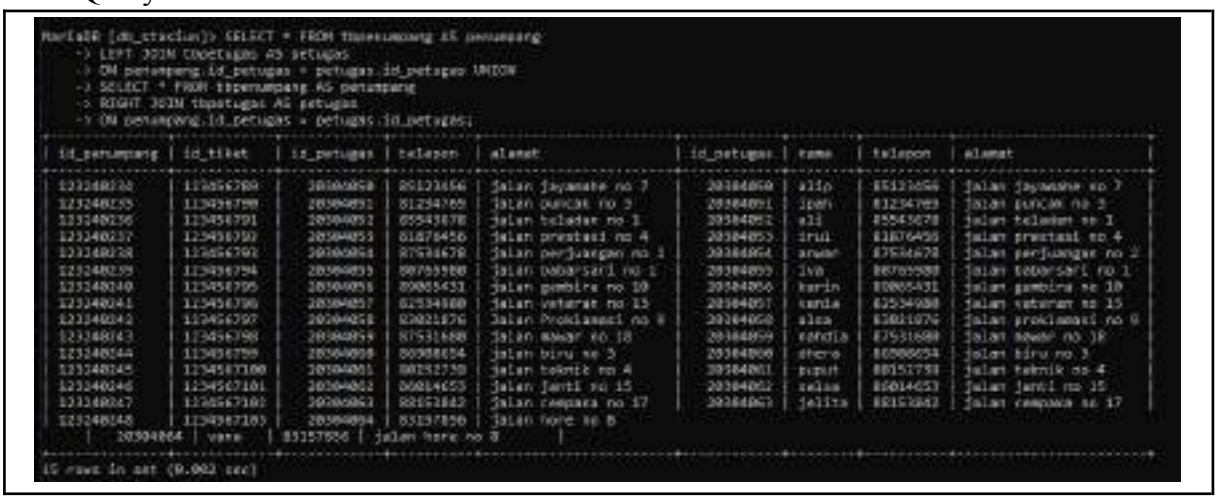
```
> SELECT * FROM tbpenumpang AS penumpang LEFT JOIN tbjadwal AS jadwal ON
penumpang.id_penumpang = jadwal.id_penumpang UNION SELECT * FROM
tbpenumpang AS penumpang RIGHT JOIN tbjadwal AS jadwal ON
penumpang.id_penumpang = jadwal.id_penumpang;
```

Hasil Query:



5. Tabel Penumpang dengan Tabel Petugas

Query:

```
> SELECT * FROM tbpenumpang AS penumpang LEFT JOIN tbpetugas AS petugas
ON penumpang.id_petugas = petugas.id_petugas UNION SELECT * FROM
tbpenumpang AS penumpang RIGHT JOIN tbpetugas AS petugas ON
penumpang.id_petugas = petugas.id_petugas;
```

Hasil Query: