

**SISTEM BASIS DATA
(Database System)**

**LAPORAN
PROJECT AKHIR**



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Menunjukkan query standart, join, fungsi, agregat, dan subquery.

DDL (data definision language)

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use auto2000
Database changed
MariaDB [auto2000]> show tables;
+-----+
| Tables_in_auto2000 |
+-----+
| jenis_layanan      |
| mobil              |
| pemilik             |
| service_record      |
| sparepart           |
+-----+
5 rows in set (0.065 sec)

MariaDB [auto2000]>
```

DML (data manipulation language)

```
MariaDB [auto2000]> select*from mobil;
+-----+-----+-----+-----+-----+
| id_mobil | kode_mesin | jenis_mobil | warna_mobil | tipe_mobil |
+-----+-----+-----+-----+-----+
| 1 | AZ001 | SUV | Putih | Rush |
| 2 | AZ002 | MPV | Hitam | Avanza |
| 3 | AZ003 | Citycar | Silver | Agya |
| 4 | AZ001 | SUV | Hitam | Fortuner |
| 5 | AZ002 | MPV | Hitam | Calya |
| 6 | AZ003 | Citycar | Putih | Etios |
| 7 | AZ001 | SUV | Hitam | Hilux |
| 8 | AZ002 | MPV | Silver | Alparth |
| 9 | AZ004 | Sedan | Hitam | Camry |
| 10 | AZ004 | Sedan | Hitam | Vios |
| 11 | AZ002 | MPV | Hitam | Voxy |
| 12 | AZ003 | Citycar | Kuning | Agya |
+-----+-----+-----+-----+-----+
12 rows in set (0.289 sec)
```

Menampilkan seluruh data dari table pemilik

```
MariaDB [auto2000]> select*from pemilik;
```

id_pemilik	nama_pemilik	alamat	kode_mesin
1	Haryono	Klaten	AZ001
2	Anton	Surabaya	AZ002
3	Subroto	Surakarta	AZ003
4	Joko	Karanganyar	AZ004
5	Doni	Jepara	AZ003
6	Putri	Pacitan	AZ002
7	Elvira	Sukoharjo	AZ002
8	Verawati	Karanganyar	AZ004
9	Kartini	Sukoharjo	AZ003
10	Zahra	Madiun	AZ002
11	Risa	Sidoharjo	AZ004
12	Riyan	Mojokerto	AZ001
13	Johan	Ngawi	AZ002
14	Martin	Kediri	AZ001

```
14 rows in set (0.049 sec)
```

Menampilkan jumlah total dari harga service record

```
MariaDB [auto2000]> SELECT SUM(harga_service) AS "Total Service" FROM service_record;
```

Total Service
3300000

```
1 row in set (0.146 sec)
```

```
MariaDB [auto2000]>
```

Menampilkan harga maksimal dari sparepart

```
MariaDB [auto2000]> select max(harga) from sparepart;
+-----+
| max(harga) |
+-----+
|    1500000 |
+-----+
1 row in set (0.000 sec)
```

Menampilkan nama pemilik yang beralamat sukoharjo

```
MariaDB [auto2000]> select nama_pemilik from pemilik where alamat="Sukoharjo";
+-----+
| nama_pemilik |
+-----+
| Elvira       |
| Kartini      |
+-----+
2 rows in set (0.064 sec)
```

Menampilkan tanggal service dan juga harga service yang memiliki kode mesin "AZ002" dengan harga service kurang dari 500.000,-

```
MariaDB [auto2000]> SELECT tanggal_service, harga_service FROM service_record WHERE
harga_service < 500000 AND kode_mesin="AZ002";
+-----+-----+
| tanggal_service | harga_service |
+-----+-----+
| 2020-06-17      | 450000       |
| 2020-10-18      | 300000       |
| 2020-06-17      | 450000       |
| 2020-06-17      | 450000       |
+-----+-----+
4 rows in set (0.096 sec)
```

Menampilkan nama pemilik, kode layanan, dan harga service yang melakukan service pada tanggal 17 juli 2020.

```
MariaDB [auto2000]> SELECT pemilik.nama_pemilik, service_record.kode_layanan, service_record.harga_service FROM
-> (service_record INNER JOIN pemilik ON pemilik.kode_mesin = service_record.kode_mesin) WHERE
-> tanggal_service LIKE "%2020-06-17%" ORDER BY nama_pemilik;
```

nama_pemilik	kode_layanan	harga_service
Anton	SR001	450000
Anton	SR005	450000
Anton	SR001	450000
Elvira	SR001	450000
Elvira	SR001	450000
Elvira	SR005	450000
Johan	SR001	450000
Johan	SR001	450000
Johan	SR005	450000
Putri	SR001	450000
Putri	SR001	450000
Putri	SR005	450000
Zahra	SR005	450000
Zahra	SR001	450000
Zahra	SR001	450000

15 rows in set (0.001 sec)