

Praktikum 7

SELECT

No	Keterangan
1	<p>Diagram illustrating the database structure and relationships for the software_house database:</p> <ul style="list-style-type: none"> karyawan (software_house): nik (varchar(10)), nama (varchar(100)), tanggal_lahir (date), jenis_kelamin (enum('PRIA','WANITA')), alamat (varchar(255)), nomor_telepon (varchar(20)), email (varchar(100)), gaji (decimal(10,2)), departemen_kode (varchar(3)). penugasan (software_house): nomor_proyek (int(11)), nik (varchar(10)), total_jam (int(3)). departemen (software_house): kode (varchar(3)), nama (varchar(45)), nik_manajer (varchar(10)). departemen_backup (software_house): kode (varchar(3)), nama (varchar(45)), nik_manajer (varchar(10)). klien (software_house): nomor (int(11)), nama (varchar(100)), alamat (varchar(255)), jenis (enum('INDIVIDU','INSTANSI')), nomor_telepon (varchar(20)), email (varchar(100)). proyek (software_house): nomor (int(11)), nomor_klien (int(11)), nama (varchar(100)), deskripsi (text), tanggal_mulai (date), tanggal_selesai (date). <p>Relationships (Foreign Keys):</p> <ul style="list-style-type: none"> karyawan.nik → penugasan.nik karyawan.departemen_kode → departemen.kode departemen.kode → departemen_backup.kode departemen.nik_manajer → klien.nomor penugasan.nomor_proyek → proyek.nomor klien.nomor → proyek.nomor_klien
2	<p>SELECT * FROM departemen;</p> <pre> MariaDB [software_house]> select * from departemen; +-----+-----+-----+ kode nama nik_manajer +-----+-----+-----+ CSR Customer Service and Relation NULL DUX Desain dan User Experience NULL HRD Humam Resource Development NULL MGT Top Level Management NULL MKT Marketing NULL PKU Pekerjaan Umum NULL PRD Produksi NULL +-----+-----+-----+ 7 rows in set (0.00 sec) </pre> <p>SELECT * FROM karyawan;</p>

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MariaDB [software_house]> select * from karyawan;
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+-----+-----+-----+-----+-----+-----+-----+
| nik    | nama  | tanggal_lahir | jenis_kelamin | alamat      | nomor_telepon | email          |
| gaji   | departemen_kode |                |                |              |                |                |
+-----+-----+-----+-----+-----+-----+-----+
| 1841721 | Alif   | 2000-03-18     | PRIA          | Singosari   | 0218779901    | alip@gmail.com |
| 800700.00 | CSR   |                |                |              |                |                |
| 1841722 | Aryo   | 2000-03-12     | PRIA          | Malang      | 0218779902    | aryo@gmail.com |
| 600000.00 | DUX   |                |                |              |                |                |
| 1841723 | Bintang | 2000-04-03     | PRIA          | Tulungagung | 0218779903    | bintang@gmail.com |
| 700800.00 | HRD   |                |                |              |                |                |
| 1841724 | Besta  | 2000-01-18     | PRIA          | Madiun      | 0218779904    | besta@gmail.com |
| 900900.00 | MGT   |                |                |              |                |                |
| 1841725 | Farid  | 2000-06-05     | PRIA          | Jakarta     | 0218779905    | farid@gmail.com |
| 900000.00 | MKT   |                |                |              |                |                |
| 1841726 | Minggar | 2000-05-14     | PRIA          | Probolinggo | 0218779906    | minggar@gmail.com |
| 700000.00 | PKU   |                |                |              |                |                |
| 1841727 | Latif  | 2000-02-12     | PRIA          | Malang      | 0218779907    | latif@gmail.com |
| 800000.00 | PRD   |                |                |              |                |                |
+-----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

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SELECT * FROM klien;
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MariaDB [software_house]> select * from klien;
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+-----+-----+-----+-----+-----+-----+
| nomor | nama  | alamat  | jenis  | nomor_telepon | email          |
+-----+-----+-----+-----+-----+-----+
| 1      | saya  | Jl. Dewa | INDIVIDU | 0818061605    | saya@gmail.com |
| 2      | ayas  | Jl. Dewo | INSTANSI | 0818061234    | ayas@gmail.com  |
| 3      | suwaya | Jl. Dewe | INSTANSI | 0818067584    | suwaya@gmail.com |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

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SELECT * FROM proyek;
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MariaDB [software_house]> SELECT * FROM proyek;
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+-----+-----+-----+-----+-----+-----+
| nomor | nomor_klien | nama  | deskripsi  | tanggal_mulai | tanggal_selesai |
+-----+-----+-----+-----+-----+-----+
| 1231  | 1           | saya  | Bikin kesel | 2019-02-10     | 2019-03-10       |
| 2234  | 2           | ayas  | Bikin squishy | 2019-04-10     | 2019-05-10       |
| 3123  | 3           | suwaya | Bikin asik aja | 2019-06-10     | 2019-07-10       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

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SELECT * FROM penugasan;
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MariaDB [software_house]> SELECT * FROM penugasan;
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+-----+-----+-----+
| nomor_proyek | nik    | total_jam |
+-----+-----+-----+
| 1231         | 1841721 | 10         |
| 2234         | 1841722 | 9          |
| 3123         | 1841723 | 11         |
+-----+-----+-----+
3 rows in set (0.00 sec)

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Praktikum – Bagian 2: Percobaan SELECT QUERY

No	Keterangan
1	<p>SELECT nama FROM karyawan WHERE departemen_kode = 'MKT';</p> <pre> MariaDB [software_house]> SELECT nama FROM karyawan WHERE departemen_kode = 'MKT'; +-----+ nama +-----+ Farid +-----+ 1 row in set (0.00 sec) </pre>
9	<p>SELECT DISTINCT total_jam FROM penugasan;</p> <pre> MariaDB [software_house]> SELECT DISTINCT total_jam FROM penugasan; +-----+ total_jam +-----+ 10 9 11 +-----+ 3 rows in set (0.00 sec) </pre>
3	<p>SELECT nik, nama FROM karyawan WHERE gaji IN (700000,600000);</p> <pre> MariaDB [software_house]> SELECT nik, nama FROM karyawan WHERE gaji IN (700000,600000); +-----+-----+ nik nama +-----+-----+ 1841722 Aryo 1841726 Minggar +-----+-----+ 2 rows in set (0.00 sec) </pre>
4	<p>SELECT nik, nama FROM karyawan WHERE gaji BETWEEN 500000 AND 800000;</p> <pre> MariaDB [software_house]> SELECT nik, nama FROM karyawan WHERE gaji BETWEEN 500000 AND 800000; +-----+-----+ nik nama +-----+-----+ 1841722 Aryo 1841723 Bintang 1841726 Minggar 1841727 Latif +-----+-----+ 4 rows in set (0.00 sec) </pre>

5	<p>SELECT nama, alamat, jenis FROM klien WHERE nama like 'a%';</p> <pre> MariaDB [software_house]> SELECT nama, alamat, jenis FROM klien WHERE nama like 'a%'; +-----+-----+-----+ nama alamat jenis +-----+-----+-----+ ayas Jl. Dewo INSTANSI +-----+-----+-----+ 1 row in set (0.00 sec) </pre>
6	<p>SELECT nik, nama, gaji, departemen_kode FROM karyawan GROUP BY gaji;</p> <pre> MariaDB [software_house]> SELECT nik, nama, gaji, departemen_kode FROM karyawan GROUP BY gaji; +-----+-----+-----+-----+ nik nama gaji departemen_kode +-----+-----+-----+-----+ 1841722 Aryo 600000.00 DUX 1841726 Minggar 700000.00 PKU 1841723 Bintang 700800.00 HRD 1841727 Latif 800000.00 PRD 1841721 Alif 800700.00 CSR 1841725 Farid 900000.00 MKT 1841724 Besta 900900.00 MGT +-----+-----+-----+-----+ 7 rows in set (0.00 sec) </pre>
7	<p>SELECT nama, tanggal_mulai FROM proyek ORDER BY tanggal_mulai ASC;</p> <pre> MariaDB [software_house]> SELECT nama, tanggal_mulai FROM proyek ORDER BY tanggal_mulai ASC; +-----+-----+ nama tanggal_mulai +-----+-----+ saya 2019-02-10 ayas 2019-04-10 suwaya 2019-06-10 +-----+-----+ 3 rows in set (0.00 sec) </pre>
8	<p>SELECT * FROM karyawan WHERE jenis_kelamin = 'PRIA' AND gaji < 700000;</p> <pre> MariaDB [software_house]> SELECT * FROM karyawan WHERE jenis_kelamin = 'PRIA' AND gaji < 700000; +-----+-----+-----+-----+-----+-----+-----+-----+ nik nama tanggal_lahir jenis_kelamin alamat nomor_telepon email gaji departemen_kode +-----+-----+-----+-----+-----+-----+-----+-----+ 1841722 Aryo 2000-03-12 PRIA Malang 0218779902 aryo@gmail.com 600000.00 DUX +-----+-----+-----+-----+-----+-----+-----+-----+ 1 row in set (0.00 sec) </pre>

9	<pre>SELECT nik FROM penugasan UNION SELECT nik_manajer FROM departemen; MariaDB [software_house]> SELECT nik FROM penugasan UNION SELECT nik_manajer FROM departemen; +-----+ nik +-----+ 1841721 1841722 1841723 NULL +-----+ 4 rows in set (0.00 sec)</pre>
10	<pre>SELECT nik FROM penugasan UNION ALL SELECT nik_manajer FROM departemen; MariaDB [software_house]> SELECT nik FROM penugasan UNION ALL SELECT nik_manajer FROM departemen; +-----+ nik +-----+ 1841721 1841722 1841723 NULL NULL NULL NULL NULL NULL NULL +-----+ 10 rows in set (0.00 sec)</pre>
11	Setelah berhasil mengeksekusi SQL tersebut, lanjutkan ke Praktikum - Bagian 3.

Praktikum - Bagian 3: Percobaan SELECT Sub-Query

1	<pre>SELECT AVG(gaji) FROM karyawan; MariaDB [software_house]> SELECT AVG(gaji) FROM karyawan; +-----+ AVG(gaji) +-----+ 771771.428571 +-----+ 1 row in set (0.00 sec)</pre>
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2	<pre>SELECT MAX(gaji) FROM karyawan; MariaDB [software_house]> SELECT MAX(gaji) FROM karyawan; +-----+ MAX(gaji) +-----+ 900900.00 +-----+ 1 row in set (0.00 sec)</pre>
3	<pre>SELECT MIN(gaji) FROM karyawan; MariaDB [software_house]> SELECT MIN(gaji) FROM karyawan; +-----+ MIN(gaji) +-----+ 600000.00 +-----+ 1 row in set (0.00 sec)</pre>
4	<pre>SELECT SUM(gaji) FROM karyawan; MariaDB [software_house]> SELECT SUM(gaji) FROM karyawan; +-----+ SUM(gaji) +-----+ 5402400.00 +-----+ 1 row in set (0.00 sec)</pre>
5	<pre>SELECT COUNT(gaji) FROM karyawan; MariaDB [software_house]> SELECT COUNT(gaji) FROM karyawan; +-----+ COUNT(gaji) +-----+ 7 +-----+ 1 row in set (0.00 sec)</pre>

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Tugas

No	Keterangan
1	Sudah
2	<pre>select max(tanggal_selesai) as baru from proyek; MariaDB [software_house]> select max(tanggal_selesai) as baru from proyek; +-----+ baru +-----+ 2019-07-10 +-----+ 1 row in set (0.00 sec)</pre> <pre>select min(tanggal_selesai) as lama from proyek; MariaDB [software_house]> select min(tanggal_selesai) as lama from proyek; +-----+ lama +-----+ 2019-03-10 +-----+ 1 row in set (0.00 sec)</pre>
3	<pre>select count(departemen_kode) from karyawan where departemen_kode = 'CSR'; MariaDB [software_house]> select count(departemen_kode) from karyawan where departemen_kode = 'CSR'; +-----+ count(departemen_kode) +-----+ 1 +-----+ 1 row in set (0.00 sec)</pre>
4	Skip
5	<pre>select nik, nomor_proyek, total_jam from penugasan group by nomor_proyek ASC; MariaDB [software_house]> select nik, nomor_proyek, total_jam from penugasan group by nomor_proyek ASC; +-----+-----+-----+ nik nomor_proyek total_jam +-----+-----+-----+ 1841721 1231 10 1841722 2234 9 1841723 3123 11 +-----+-----+-----+ 3 rows in set (0.00 sec)</pre>