

# SISTEM PERPUSTAKAAN SEKOLAH

## 1. Tabel Buku

ID Buku	Judul Buku	Penulis	Kategori	Stok
1	Algoritma dan Pemrograman	Andi Wijaya	Teknologi	5
2	Dasar-dasar Database	Budi Santoso	Teknologi	7
3	Matematika Diskrit	Rina Sari	Matematika	4
4	Sejarah Dunia	John Smith	Sejarah	3
5	Pemrograman Web dengan PHP	Eko Prasetyo	Teknologi	8
6	Sistem Operasi	Dian Kurniawan	Teknologi	6
7	Jaringan Komputer	Ahmad Fauzi	Teknologi	5
8	Cerita Rakyat Nusantara	Lestari Dewi	Sastra	9
9	Bahasa Inggris untuk Pemula	Jane Doe	Bahasa	10
10	Biologi Dasar	Budi Rahman	Sains	7
11	Kimia Organik	Siti Aminah	Sains	5
12	Teknik Elektro	Ridwan Hakim	Teknik	6
13	Fisika Modern	Albert Einstein	Sains	4
14	Manajemen Waktu	Steven Covey	Pengembangan	8
15	Strategi Belajar Efektif	Tony Buzan	Pendidikan	6

## 2. Tabel Siswa

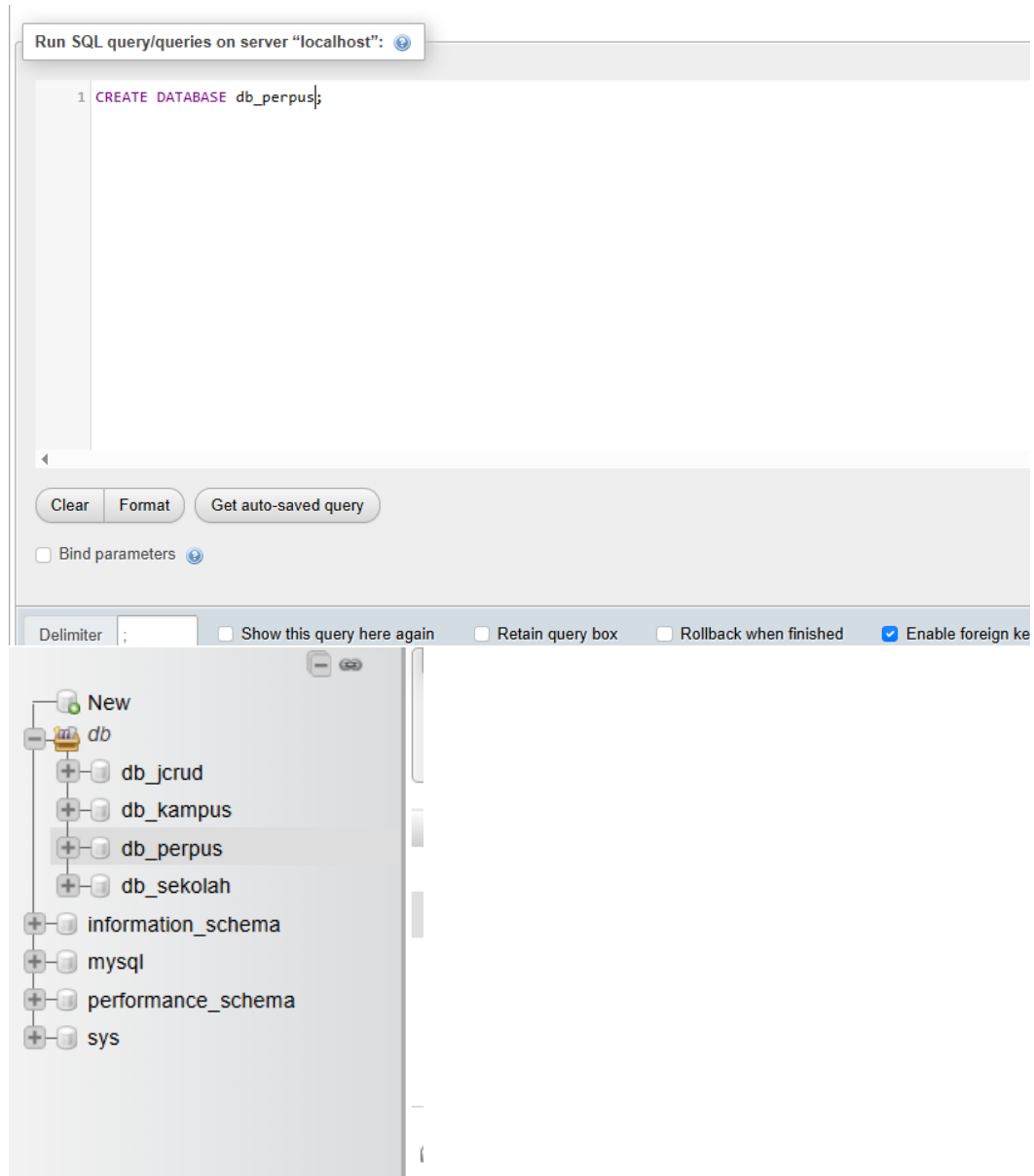
ID Siswa	Nama	Kelas
1	Andi Saputra	X-RPL
2	Budi Wijaya	X-TKJ
3	Citra Lestari	XI-RPL
4	Dewi Kurniawan	XI-TKJ
5	Eko Prasetyo	XII-RPL
6	Farhan Maulana	XII-TKJ
7	Gita Permata	X-RPL
8	Hadi Sucipto	X-TKJ
9	Intan Permadi	XI-RPL
10	Joko Santoso	XI-TKJ
11	Kartika Sari	XII-RPL
12	Lintang Putri	XII-TKJ
13	Muhammad Rizky	X-RPL
14	Novi Andriana	X-TKJ
15	Olivia Hernanda	XI-RPL

### 3. Tabel Peminjaman

ID Peminjaman	ID Siswa	ID Buku	Tanggal Pinjam	Tanggal Kembali	Status
1	11	2	2025-02-01	2025-02-08	Dipinjam
2	2	5	2025-01-28	2025-02-04	Dikembalikan
3	3	8	2025-02-02	2025-02-09	Dipinjam
4	4	10	2025-01-30	2025-02-06	Dikembalikan
5	5	3	2025-01-25	2025-02-01	Dikembalikan
6	15	7	2025-02-01	2025-02-08	Dipinjam
7	7	1	2025-01-29	2025-02-05	Dikembalikan
8	8	9	2025-02-03	2025-02-10	Dipinjam
9	13	4	2025-01-27	2025-02-03	Dikembalikan
10	10	11	2025-02-01	2025-02-08	Dipinjam

# TUGAS

1. Buatlah database dengan nama db\_perpus.



## 2. Buatlah table buku, siswa dan peminjaman.

### - Tabel buku:

Run SQL query/queries on database db\_perpus: ⓘ

```
1 CREATE TABLE buku (  
2   id_buku INT PRIMARY KEY AUTO_INCREMENT,  
3   judul_buku VARCHAR(255),  
4   penulis VARCHAR(255),  
5   kategori VARCHAR(100),  
6   stok INT  
7 );
```

Clear Format Get auto-saved query

☐ Bind parameters ⓘ

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> buku	☆ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<b>1 table</b>	<b>Sum</b>	<b>0</b>	<b>InnoDB</b>	<b>utf8mb4_0900_ai_ci</b>	<b>16.0 KiB</b>	<b>0 B</b>

⬅ ☐ Check all With selected: ▼

Print Data dictionary

### - Tabel siswa:

Run SQL query/queries on database db\_perpus: ⓘ

```
1 CREATE TABLE siswa (  
2   id_siswa INT PRIMARY KEY AUTO_INCREMENT,  
3   nama VARCHAR(255),  
4   kelas VARCHAR(50)  
5 );
```

Clear Format Get auto-saved query

☐ Bind parameters ⓘ

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> buku	☆ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> siswa	☆ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<b>2 tables</b>	<b>Sum</b>	<b>0</b>	<b>InnoDB</b>	<b>utf8mb4_0900_ai_ci</b>	<b>32.0 KiB</b>	<b>0 B</b>

⬅ ☐ Check all With selected: ▼

- Tabel peminjaman:

Run SQL query/queries on database db\_perpus: ⓘ

```
1 CREATE TABLE peminjaman (  
2   id_peminjaman INT PRIMARY KEY AUTO_INCREMENT,  
3   id_siswa INT,  
4   id_buku INT,  
5   tanggal_pinjam DATE,  
6   tanggal_kembali DATE,  
7   status ENUM('Dipinjam', 'Dikembalikan'),  
8   FOREIGN KEY (id_siswa) REFERENCES siswa(id_siswa),  
9   FOREIGN KEY (id_buku) REFERENCES buku(id_buku)  
10 );
```

ClearFormatGet auto-saved query

☐ Bind parameters ⓘ

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> buku	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_0900_ai_ci	16.0 K1B	-
<input type="checkbox"/> peminjaman	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_0900_ai_ci	48.0 K1B	-
<input type="checkbox"/> siswa	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	utf8mb4_0900_ai_ci	16.0 K1B	-
3 tables	Sum	0	InnoDB	utf8mb4_0900_ai_ci	80.0 K1B	0 B

☐ Check allWith selected: ▾

### 3. Input 5 record di setiap table menggunakan query INSERT.

#### - Tabel buku:

Run SQL query/queries on database db\_perpus: ⓘ

```
1 INSERT INTO buku (judul_buku, penulis, kategori, stok) VALUES
2 ('Algoritma dan Pemrograman', 'Andi Wijaya', 'Teknologi', 5),
3 ('Dasar-dasar Database', 'Budi Santoso', 'Teknologi', 7),
4 ('Matematika Diskrit', 'Rina Sari', 'Matematika', 4),
5 ('Sejarah Dunia', 'John Smith', 'Sejarah', 3),
6 ('Pemrograman Web dengan PHP', 'Eko Prasetyo', 'Teknologi', 8);
```

Clear Format Get auto-saved query

✓ Showing rows 0 - 4 (5 total. Query took 0.0004 seconds.)

SELECT \* FROM `buku`

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

		id_buku	judul_buku	penulis	kategori	stok
<input type="checkbox"/>	Edit Copy Delete	1	Algoritma dan Pemrograman	Andi Wijaya	Teknologi	5
<input type="checkbox"/>	Edit Copy Delete	2	Dasar-dasar Database	Budi Santoso	Teknologi	7
<input type="checkbox"/>	Edit Copy Delete	3	Matematika Diskrit	Rina Sari	Matematika	4
<input type="checkbox"/>	Edit Copy Delete	4	Sejarah Dunia	John Smith	Sejarah	3
<input type="checkbox"/>	Edit Copy Delete	5	Pemrograman Web dengan PHP	Eko Prasetyo	Teknologi	8

⬆ ☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

- Tabel siswa:

Run SQL query/queries on table db\_perpus.buku:

```
1 INSERT INTO siswa (nama, kelas) VALUES
2 ('Andi Saputra', 'X-RPL'),
3 ('Budi Wijaya', 'X-TKJ'),
4 ('Citra Lestari', 'XI-RPL'),
5 ('Dewi Kurniawan', 'XI-TKJ'),
6 ('Eko Prasetyo', 'XII-RPL');
```

SELECT \* SELECT INSERT UPDATE DELETE Clear Format Get auto-saved query

☐ Bind parameters

Showing rows 0 - 4 (5 total, Query took 0.0004 seconds.)

SELECT \* FROM `siswa`

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

id\_siswa

nama

kelas

☐

Edit

Copy

Delete

1

Andi Saputra

X-RPL

☐

Edit

Copy

Delete

2

Budi Wijaya

X-TKJ

☐

Edit

Copy

Delete

3

Citra Lestari

XI-RPL

☐

Edit

Copy

Delete

4

Dewi Kurniawan

XI-TKJ

☐

Edit

Copy

Delete

5

Eko Prasetyo

XII-RPL

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

- Tabel peminjaman

Run SQL query/queries on table db\_perpus.siswa:

```
1 INSERT INTO peminjaman (id_siswa, id_buku, tanggal_pinjam, tanggal_kembali, status) VALUES
2 (1, 2, '2025-02-01', '2025-02-08', 'Dipinjam'),
3 (2, 5, '2025-01-28', '2025-02-04', 'Dikembalikan'),
4 (3, 4, '2025-02-02', '2025-02-09', 'Dipinjam'),
5 (4, 1, '2025-01-30', '2025-02-06', 'Dikembalikan'),
6 (5, 3, '2025-01-25', '2025-02-01', 'Dikembalikan');
```

SELECT \* SELECT INSERT UPDATE DELETE Clear Format Get auto-saved query

☐ Bind parameters

Showing rows 0 - 4 (5 total, Query took 0.0002 seconds.)

SELECT \* FROM `siswa`

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

id\_siswa

nama

kelas

☐

Edit

Copy

Delete

1

Andi Saputra

X-RPL

☐

Edit

Copy

Delete

2

Budi Wijaya

X-TKJ

☐

Edit

Copy

Delete

3

Citra Lestari

XI-RPL

☐

Edit

Copy

Delete

4

Dewi Kurniawan

XI-TKJ

☐

Edit

Copy

Delete

5

Eko Prasetyo

XII-RPL

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

#### 4. Input 10 record di setiap table menggunakan stored procedure INSERT.

##### - Query:

Run SQL query/queries on database db\_perpus: ⓘ

```
1 CALL InsertBuku('Fisika Dasar', 'Albert Einstein', 'Sains', 6);
2 CALL InsertBuku('Kimia Organik', 'Siti Aminah', 'Sains', 5);
3 CALL InsertBuku('Teknik Elektro', 'Ridwan Hakim', 'Teknik', 7);
4 CALL InsertBuku('Manajemen Waktu', 'Steven Covey', 'Pengembangan', 8);
5 CALL InsertBuku('Strategi Belajar Efektif', 'Tony Buzan', 'Pendidikan', 6);
6 CALL InsertBuku('Bahasa Inggris untuk Pemula', 'Jane Doe', 'Bahasa', 10);
7 CALL InsertBuku('Cerita Rakyat Nusantara', 'Lestari Dewi', 'Sastra', 9);
8 CALL InsertBuku('Sistem Operasi', 'Dian Kurniawan', 'Teknologi', 6);
9 CALL InsertBuku('Jaringan Komputer', 'Ahmad Fauzi', 'Teknologi', 5);
10 CALL InsertBuku('Biologi Dasar', 'Budi Rahman', 'Sains', 7);
```

☐ Bind parameters ⓘ

Delimiter:  ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks

##### - Setelah query di jalankan

☐ Show all | Number of rows: 25 | Filter rows:  | Sort by key: None

Extra options

	id_buku	judul_buku	penulis	kategori	stok
<input type="checkbox"/>	1	Algoritma dan Pemrograman	Andi Wijaya	Teknologi	5
<input type="checkbox"/>	2	Dasar-dasar Database	Budi Santoso	Teknologi	7
<input type="checkbox"/>	3	Matematika Diskrit	Rina Sari	Matematika	4
<input type="checkbox"/>	4	Sejarah Dunia	John Smith	Sejarah	3
<input type="checkbox"/>	5	Pemrograman Web dengan PHP	Eko Prasetyo	Teknologi	8
<input type="checkbox"/>	6	Fisika Dasar	Albert Einstein	Sains	6
<input type="checkbox"/>	7	Kimia Organik	Siti Aminah	Sains	5
<input type="checkbox"/>	8	Teknik Elektro	Ridwan Hakim	Teknik	7
<input type="checkbox"/>	9	Manajemen Waktu	Steven Covey	Pengembangan	8
<input type="checkbox"/>	10	Strategi Belajar Efektif	Tony Buzan	Pendidikan	6
<input type="checkbox"/>	11	Bahasa Inggris untuk Pemula	Jane Doe	Bahasa	10
<input type="checkbox"/>	12	Cerita Rakyat Nusantara	Lestari Dewi	Sastra	9
<input type="checkbox"/>	13	Sistem Operasi	Dian Kurniawan	Teknologi	6
<input type="checkbox"/>	14	Jaringan Komputer	Ahmad Fauzi	Teknologi	5
<input type="checkbox"/>	15	Biologi Dasar	Budi Rahman	Sains	7

☐ Check all | With selected:

☐ Show all | Number of rows: 25 | Filter rows:  | Sort by key: None

Query results operations



5. Buatlah stored procedure UPDATE, DELETE di setiap table.

- Query:

```
Run SQL query/queries on database db_perpus: ⓘ

1 DELIMITER //
2 CREATE PROCEDURE InsertBuku(IN j_buku VARCHAR(255), IN p_buku VARCHAR(255), IN k_buku VARCHAR(100), IN s_buku INT)
3 BEGIN
4     INSERT INTO buku (judul_buku, penulis, kategori, stok) VALUES (j_buku, p_buku, k_buku, s_buku);
5 END//
6
7 CREATE PROCEDURE UpdateBuku(IN id INT, IN new_stok INT)
8 BEGIN
9     UPDATE buku SET stok = new_stok WHERE id_buku = id;
10 END//
11
12 CREATE PROCEDURE DeleteBuku(IN id INT)
13 BEGIN
14     DELETE FROM buku WHERE id_buku = id;
15 END//
16 DELIMITER ;
```



Clear Format Get auto-saved query ⓘ













☐ Bind parameters ⓘ

Delimiter ; ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go


- Setelah query di jalankan

## Routines ⓘ

☐ Check all  Export  Drop


	Name	Type	Returns	
<input type="checkbox"/>	DeleteBuku	PROCEDURE		 Edit  Execute  Export  Drop
<input type="checkbox"/>	InsertBuku	PROCEDURE		 Edit  Execute  Export  Drop
<input type="checkbox"/>	UpdateBuku	PROCEDURE		 Edit  Execute  Export  Drop

- Percobaan stored procedure pada UpdateBuku

Run SQL query/queries on database db\_perpus: 

```
1 CALL UpdateBuku(2, 10);
2 SELECT * FROM buku WHERE id_buku = 2;
```

[Clear](#) [Format](#) [Get auto-saved query](#)

☐ Bind parameters 

Delimiter:  ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks [Go](#)

- Setelah query di jalankan

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0037 seconds.)

```
CALL UpdateBuku(2, 10);
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)




✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)






```
SELECT * FROM buku WHERE id_buku = 2;
```

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 [v](#) Filter rows:

Extra options

		id_buku	judul_buku	penulis	kategori	stok		
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	Dasar-dasar Database	Budi Santoso	Teknologi	10

 ☐ Check all With selected:  Edit  Copy  Delete  Export

☐ Show all | Number of rows: 25 [v](#) Filter rows:

- Percobaan stored procedure pada DeleteBuku

Run SQL query/queries on table db\_perpus.buku: ⓘ

```
1 CALL DeleteBuku(3);
2 SELECT * FROM buku WHERE id_buku = 3;
```

SELECT \* SELECT INSERT UPDATE DELETE Clear Format Get auto-saved query

☐ Bind parameters ⓘ

Delimiter ; ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

- Setelah query di jalankan

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0080 seconds.)

```
CALL DeleteBuku(3);
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
SELECT * FROM buku WHERE id_buku = 3;
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

id_buku	judul_buku	penulis	kategori	stok
---------	------------	---------	----------	------

Query results operations

Create view

6. Buatlah stored procedure untuk menampilkan seluruh record di setiap table.

- Query:

Run SQL query/queries on database db\_perpus: ⓘ

```
1 DELIMITER //
2 CREATE PROCEDURE ShowAllBuku()
3 BEGIN
4     SELECT * FROM buku;
5 END//
6
7 CREATE PROCEDURE ShowAllSiswa()
8 BEGIN
9     SELECT * FROM siswa;
10 END//
11
12 CREATE PROCEDURE ShowAllPeminjaman()
13 BEGIN
14     SELECT * FROM peminjaman;
15 END//
16 DELIMITER ;
```

Clear Format Get auto-saved query

☐ Bind parameters ⓘ

Delimiter ; ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

- Percobaan stored procedure ShowAllBuku

✓ Showing rows 0 - 14 (15 total, Query took 0.0005 seconds.)

[CALL](#) ShowAllBuku();

[ [Edit inline](#) ] [ [Edit](#) ] [ [Create PHP code](#) ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

id_buku	judul_buku	penulis	kategori	stok
1	Algoritma dan Pemrograman	Andi Wijaya	Teknologi	5
2	Dasar-dasar Database	Budi Santoso	Teknologi	7
3	Matematika Diskrit	Rina Sari	Matematika	4
4	Sejarah Dunia	John Smith	Sejarah	3
5	Pemrograman Web dengan PHP	Eko Prasetyo	Teknologi	8
6	Fisika Dasar	Albert Einstein	Sains	6
7	Kimia Organik	Siti Aminah	Sains	5
8	Teknik Elektro	Ridwan Hakim	Teknik	7
9	Manajemen Waktu	Steven Covey	Pengembangan	8
10	Strategi Belajar Efektif	Tony Buzan	Pendidikan	6
11	Bahasa Inggris untuk Pemula	Jane Doe	Bahasa	10
12	Cerita Rakyat Nusantara	Lestari Dewi	Sastra	9
13	Sistem Operasi	Dian Kurniawan	Teknologi	6
14	Jaringan Komputer	Ahmad Fauzi	Teknologi	5
15	Biologi Dasar	Budi Rahman	Sains	7

☐ Show all | Number of rows: 25 | Filter rows: Search this table

- Percobaan stored procedure ShowAllSiswa

✓ Showing rows 0 - 4 (5 total, Query took 0.0010 seconds.)

```
CALL ShowAllSiswa();
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

id_siswa	nama	kelas
1	Andi Saputra	X-RPL
2	Budi Wijaya	X-TKJ
3	Citra Lestari	XI-RPL
4	Dewi Kurniawan	XI-TKJ
5	Eko Prasetyo	XII-RPL

☐ Show all | Number of rows: 25 ▼ Filter rows:

- Percobaan stored procedure ShowAllPeminjaman

✓ Showing rows 0 - 4 (5 total, Query took 0.0008 seconds.)

```
CALL ShowAllPeminjaman();
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

id_peminjaman	id_siswa	id_buku	tanggal_pinjam	tanggal_kembali	status
1	1	2	2025-02-01	2025-02-08	Dipinjam
2	2	5	2025-01-28	2025-02-04	Dikembalikan
3	3	4	2025-02-02	2025-02-09	Dipinjam
4	4	1	2025-01-30	2025-02-06	Dikembalikan
5	5	3	2025-01-25	2025-02-01	Dikembalikan

☐ Show all | Number of rows: 25 ▼ Filter rows:

## 7. Stok buku pada saat dipinjam berkurang secara otomatis.

### - Query Trigger:

Run SQL query/queries on database db\_perpus: ?

```
1 DELIMITER //
2 CREATE TRIGGER KurangiStok AFTER INSERT ON peminjaman
3 FOR EACH ROW
4 BEGIN
5     UPDATE buku SET stok = stok - 1 WHERE id_buku = NEW.id_buku;
6 END//
7 DELIMITER ;
```

Clear Format Get auto-saved query

☐ Bind parameters ?

### - Percobaan trigger

Run SQL query/queries on table db\_perpus.buku: ?

```
1 INSERT INTO peminjaman (id_siswa, id_buku, tanggal_pinjam, tanggal_kembali, status)
2 VALUES (1, 2, CURDATE(), DATE_ADD(CURDATE(), INTERVAL 7 DAY), 'Dipinjam');
3 SELECT * FROM buku WHERE id_buku = 2;
```

SELECT\* SELECT INSERT UPDATE DELETE Clear Format Get auto-saved query

☐ Bind parameters ?

Delimiter ; ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

Show query box

✓ 1 row inserted.  
Inserted row id: 6 (Query took 0.0071 seconds)

```
INSERT INTO peminjaman (id_siswa, id_buku, tanggal_pinjam, tanggal_kembali, status) VALUES (1, 2, CURDATE(), DATE_ADD(CURDATE(), INTERVAL 7 DAY), 'Dipinjam');
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds)

```
SELECT * FROM buku WHERE id_buku = 2;
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all Number of rows: 25 Filter rows: Search this table

Extra options

	id_buku	judul_buku	penulis	kategori	stok
<input type="checkbox"/>	2	Dasar-dasar Database	Budi Santoso	Teknologi	9

↑ ☐ Check all With selected: Edit Copy Delete Export

☐ Show all Number of rows: 25 Filter rows: Search this table

Note: Stok berkurang 1, tadinya 10 (Pada saat percobaan stored procedure update, di update menjadi 10).

## 8. Stok buku pada saat dikembalikan bertambah secara otomatis.

### - Query

```
Run SQL query/queries on database db_perpus: ⓘ

1 DELIMITER //
2 CREATE TRIGGER TambahStok AFTER UPDATE ON peminjaman
3 FOR EACH ROW
4 BEGIN
5     IF NEW.status = 'Dikembalikan' THEN
6         UPDATE buku SET stok = stok + 1 WHERE id_buku = NEW.id_buku;
7     END IF;
8 END//
9 DELIMITER ;
```

Clear Format Get auto-saved query

☐ Bind parameters ⓘ

Delimiter ; ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

### - Stok sebelum

✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT * FROM buku WHERE id_buku = 2;
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	id_buku	judul_buku	penulis	kategori	stok
<input type="checkbox"/> Edit Copy Delete	2	Dasar-dasar Database	Budi Santoso	Teknologi	8

↑ ☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table

### - Stok sesudah

✓ 1 row affected. (Query took 0.0064 seconds.)

```
UPDATE peminjaman SET status = 'Dikembalikan' WHERE id_peminjaman = 1;
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT * FROM buku WHERE id_buku = 2;
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	id_buku	judul_buku	penulis	kategori	stok
<input type="checkbox"/> Edit Copy Delete	2	Dasar-dasar Database	Budi Santoso	Teknologi	9

↑ ☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table

9. Buatlah stored procedure untuk mengembalikan buku dan gunakan tanggal pengembalian sesuai dengan tanggal saat mengembalikan (CURRENT DATE).

- Query:



```
Run SQL query/queries on database db_perpus: ⓘ  
  
1 DELIMITER //  
2 CREATE PROCEDURE KembalikanBuku(IN id_p INT)  
3 BEGIN  
4     UPDATE peminjaman SET status = 'Dikembalikan', tanggal_kembali = CURDATE() WHERE id_peminjaman = id_p;  
5 END//  
6 DELIMITER ;
```





























Clear Format Get auto-saved query

☐ Bind parameters ⓘ

- Setelah query di jalankan:

### Routines ⓘ

☐ Check all  Export  Drop

	Name	Type	Returns	
<input type="checkbox"/>	DeleteBuku	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	InsertBuku	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	KembalikanBuku	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	ShowAllBuku	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	ShowAllPeminjaman	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	ShowAllSiswa	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	UpdateBuku	PROCEDURE	 Edit  Execute  Export  Drop	



- Query kembalikan buku:

Run SQL query/queries on table `db_perpus.peminjaman`:

```
1 SELECT * FROM peminjaman WHERE id_peminjaman = 3;
2 CALL KembalikanBuku(3);
3 SELECT * FROM peminjaman WHERE id_peminjaman = 3;
```

☐ Blind parameters

Delimiter:  ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks

- Sebelum

Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)

```
SELECT * FROM peminjaman WHERE id_peminjaman = 3;
```

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	<code>id_peminjaman</code>	<code>id_siswa</code>	<code>id_buku</code>	<code>tanggal_pinjam</code>	<code>tanggal_kembali</code>	<code>status</code>
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	3	3	4	2025-02-02	2025-02-09	Dipinjam

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table

- Sesudah

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0061 seconds.)

```
CALL KembalikanBuku(3);
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT * FROM peminjaman WHERE id_peminjaman = 3;
```

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	<code>id_peminjaman</code>	<code>id_siswa</code>	<code>id_buku</code>	<code>tanggal_pinjam</code>	<code>tanggal_kembali</code>	<code>status</code>
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	3	3	4	2025-02-02	2025-02-09	Dikembalikan

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table

10. Buatlah stored procedure untuk menampilkan daftar siswa yang pernah meminjam buku.

- Query:

```
Run SQL query/queries on database db_perpus: ⓘ



1 DELIMITER //
2 CREATE PROCEDURE SiswaPeminjam()
3 BEGIN
4     SELECT DISTINCT s.id_siswa, s.nama, s.kelas FROM siswa s
5     JOIN peminjaman p ON s.id_siswa = p.id_siswa;
6 END//
7 DELIMITER ;
```

































Clear Format Get auto-saved query

☐ Bind parameters ⓘ

- Setelah query di jalankan:

### Routines ⓘ

☐ Check all  Export  Drop

	Name	Type	Returns
<input type="checkbox"/>	DeleteBuku	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	InsertBuku	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	KembalikanBuku	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	ShowAllBuku	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	ShowAllPeminjaman	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	ShowAllSiswa	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	SiswaPeminjam	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	UpdateBuku	PROCEDURE	 Edit  Execute  Export  Drop

- Query untuk memanggil stored procedure SiswaPeminjam

Run SQL query/queries on table `db_perpus.peminjaman`: ⓘ

```
1 CALL SiswaPeminjam();
```

☐ Bind parameters ⓘ

Delimiter:  ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks

- Setelah query di jalankan

✔ Showing rows 0 - 3 (4 total, Query took 0.0012 seconds.)

`CALL SiswaPeminjam();`

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

☐ Show all | Number of rows: 25 ▼ | Filter rows:

<code>id_siswa</code>	<code>nama</code>	<code>kelas</code>
1	Andi Saputra	X-RPL
2	Budi Wijaya	X-TKJ
3	Citra Lestari	XI-RPL
4	Dewi Kurniawan	XI-TKJ

☐ Show all | Number of rows: 25 ▼ | Filter rows:

11. Buatlah stored procedure untuk menampilkan semua siswa, termasuk yang tidak pernah meminjam buku.

- Query

Run SQL query/queries on database db\_perpus: ⓘ



```
1 DELIMITER //
2 CREATE PROCEDURE SemuaSiswa()
3 BEGIN
4     SELECT s.id_siswa, s.nama, s.kelas, COALESCE(p.id_peminjaman, 'Belum Meminjam') AS status_peminjaman
5     FROM siswa s
6     LEFT JOIN peminjaman p ON s.id_siswa = p.id_siswa;
7 END//
8 DELIMITER ;
```































Clear Format Get auto-saved query

☐ Bind parameters ⓘ

- Setelah query di jalankan

Routines ⓘ

☐ Check all  Export  Drop

	Name	Type	Returns
<input type="checkbox"/>	DeleteBuku	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	InsertBuku	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	KembalikanBuku	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	Semua Siswa	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	ShowAllBuku	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	ShowAllPeminjaman	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	ShowAllSiswa	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	SiswaPeminjam	PROCEDURE	 Edit  Execute  Export  Drop
<input type="checkbox"/>	UpdateBuku	PROCEDURE	 Edit  Execute  Export  Drop

- Query untuk memanggil stored procedure SemuaSiswa

Run SQL query/queries on table `db_perpus.peminjaman`:

```
1 CALL SemuaSiswa();
```

☐ Bind parameters

Delimiter:  ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks

- Setelah query di jalankan

✓ Showing rows 0 - 6 (7 total, Query took 0.0010 seconds.)

```
CALL SemuaSiswa();
```

[ [Edit inline](#) ] [ [Edit](#) ] [ [Create PHP code](#) ]

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

id_siswa	nama	kelas	status_peminjaman
1	Andi Saputra	X-RPL	1
1	Andi Saputra	X-RPL	6
2	Budi Wijaya	X-TKJ	2
2	Budi Wijaya	X-TKJ	7
3	Citra Lestari	XI-RPL	3
4	Dewi Kurniawan	XI-TKJ	4
5	Eko Prasetyo	XII-RPL	Belum Meminjam

☐ Show all | Number of rows: 25 | Filter rows:

12. Buatlah stored procedure untuk menampilkan semua buku, termasuk yang belum pernah dipinjam.

- Query:

Run SQL query/queries on database db\_perpus: ⓘ

```
1 DELIMITER //
2 CREATE PROCEDURE SemuaBuku()
3 BEGIN
4     SELECT b.id_buku, b.judul_buku, COALESCE(p.id_peminjaman, 'Belum Pernah Dipinjam') AS status_peminjaman
5     FROM buku b
6     LEFT JOIN peminjaman p ON b.id_buku = p.id_buku;
7 END//
8 DELIMITER ;
```



Clear Format Get auto-saved query



































☐ Bind parameters ⓘ

Delimiter ; ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

- Setelah query di jalankan

## Routines ⓘ

☐ Check all  Export  Drop

	Name	Type	Returns	
<input type="checkbox"/>	DeleteBuku	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	InsertBuku	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	KembalikanBuku	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	SemuaBuku	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	SemuaSiswa	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	ShowAllBuku	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	ShowAllPeminjaman	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	ShowAllSiswa	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	SiswaPeminjam	PROCEDURE	 Edit  Execute  Export  Drop	
<input type="checkbox"/>	UpdateBuku	PROCEDURE	 Edit  Execute  Export  Drop	

- Query untuk memanggil stored procedure SemuaBuku

Run SQL query/queries on table db\_perpus.peminjaman:

```
1 CALL SemuaBuku();
```

SELECT \* SELECT INSERT UPDATE DELETE Clear Format Get auto-saved query

☐ Bind parameters

Delimiter:  ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks

- Setelah query di jalankan

✓ Showing rows 0 - 15 (16 total, Query took 0.0008 seconds.)

CALL SemuaBuku();

[ [Edit inline](#) ] [ [Edit](#) ] [ [Create PHP code](#) ]

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

id_buku	judul_buku	status_peminjaman
1	Algoritma dan Pemrograman	4
2	Dasar-dasar Database	1
2	Dasar-dasar Database	6
2	Dasar-dasar Database	7
4	Sejarah Dunia	3
5	Pemrograman Web dengan PHP	2
6	Fisika Dasar	Belum Pernah Dipinjam
7	Kimia Organik	Belum Pernah Dipinjam
8	Teknik Elektro	Belum Pernah Dipinjam
9	Manajemen Waktu	Belum Pernah Dipinjam
10	Strategi Belajar Efektif	Belum Pernah Dipinjam
11	Bahasa Inggris untuk Pemula	Belum Pernah Dipinjam
12	Cerita Rakyat Nusantara	Belum Pernah Dipinjam
13	Sistem Operasi	Belum Pernah Dipinjam
14	Jaringan Komputer	Belum Pernah Dipinjam
15	Biologi Dasar	Belum Pernah Dipinjam

☐ Show all | Number of rows: 25 | Filter rows:

~ PUSH File SQL ke gitHub dengan nama repository Database-Pepustakaan-Sekolah ~