1. Membuat database perpustakaan

Dengan syntax sql seperti ini:

CREATE DATABASE perpustakaan

1. Membuat tabel akun, untuk login

[CREATE](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) [TABLE](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) `perpustakaan`.`akun` ( `username` [VARCHAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(16) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `password` [VARCHAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(16) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL ) ENGINE = InnoDB;

1. Membuat tabel siswa, untuk menampung data – data siswa (anggota perpustakaan)

[CREATE](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) [TABLE](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) `perpustakaan`.`siswa` ( `nis` [VARCHAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(16) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `nama` [VARCHAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(30) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `alamat` [VARCHAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(50) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `kelas` [VARCHAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(3) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `no\_telepon` [VARCHAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(13) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL ) ENGINE = InnoDB;

1. Membuat tabel buku, untuk menampung data – data buku

[CREATE](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) [TABLE](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) `perpustakaan`.`buku` ( `id\_buku` [VARCHAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(16) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `judul\_buku` [VARCHAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(25) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `penerbit` [VARCHAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(20) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `tahun\_terbit` [YEAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-types.html) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL ) ENGINE = InnoDB;

1. Tabel data peminjaman, menampung data – data peminjaman buku

[CREATE](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) [TABLE](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) `perpustakaan`.`peminjaman` ( `id\_peminjaman` [INT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html)(11) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `nis` [VARCHAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(16) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `id\_buku` [VARCHAR](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(16) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `tanggal\_pinjam` [DATE](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-types.html) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `tanggal\_kembali` [DATE](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-types.html) [NOT](http://127.0.0.1/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL ) ENGINE = InnoDB

1. Membuat primary key pada NIS di tabel siswa, id\_buku pada tabel buku, id\_peminjaman pada tabel peminjaman

ALTER TABLE `siswa` ADD PRIMARY KEY(`nis`);

ALTER TABLE `buku` ADD PRIMARY KEY(`id\_buku`);

ALTER TABLE `peminjaman` ADD PRIMARY KEY(`id\_peminjaman`);

1. Membuat Foreign key pada NIS, id\_buku pada tabel peminjaman

ALTER TABLE `peminjaman` ADD INDEX(`nis`);

ALTER TABLE `peminjaman` ADD INDEX(`id\_buku`);

1. Relasi antar tabel

