Struktur Tabel Database SIAKAD SMK

## Tabel: users

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | username | VARCHAR | 100 | Username login |
| 3 | password | VARCHAR | 255 | Password hash |
| 4 | role | ENUM | admin/guru/siswa | Role user |
| 5 | created\_at | DATETIME | - | Tanggal dibuat |
| 6 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: jurusan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | nama\_jurusan | VARCHAR | 100 | Nama jurusan |
| 3 | created\_at | DATETIME | - | Tanggal dibuat |
| 4 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: ruangan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | nama\_ruangan | VARCHAR | 100 | Nama ruangan |
| 3 | created\_at | DATETIME | - | Tanggal dibuat |
| 4 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: tahun\_akademik

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | tahun | VARCHAR | 9 | Contoh: 2024/2025 |
| 3 | semester | ENUM | 1/2 | Semester |
| 4 | status | ENUM | Aktif/Tidak | Status tahun akademik |
| 5 | created\_at | DATETIME | - | Tanggal dibuat |
| 6 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: mapel

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | nama\_mapel | VARCHAR | 100 | Nama mata pelajaran |
| 3 | created\_at | DATETIME | - | Tanggal dibuat |
| 4 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: agama

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | nama\_agama | VARCHAR | 50 | Nama agama |

## Tabel: guru

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | user\_id | INT | 11 | FK ke users |
| 3 | nip\_nuptk | VARCHAR | 50 | NIP/NUPTK guru |
| 4 | nama | VARCHAR | 100 | Nama guru |
| 5 | jenis\_kelamin | ENUM | Laki-laki/Perempuan | Jenis kelamin |
| 6 | agama\_id | INT | 11 | FK ke agama |
| 7 | tempat\_lahir | VARCHAR | 100 | Tempat lahir |
| 8 | tanggal\_lahir | DATE | - | Tanggal lahir |
| 9 | mapel\_id | INT | 11 | FK ke mapel |
| 10 | alamat | TEXT | - | Alamat |
| 11 | no\_hp | VARCHAR | 20 | Nomor HP |
| 12 | created\_at | DATETIME | - | Tanggal dibuat |
| 13 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: kelas

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | nama\_kelas | VARCHAR | 50 | Nama kelas |
| 3 | tingkat | INT | 2 | Tingkat (10/11/12) |
| 4 | jurusan\_id | INT | 11 | FK ke jurusan |
| 5 | wali\_kelas\_id | INT | 11 | FK ke guru (wali kelas) |
| 6 | created\_at | DATETIME | - | Tanggal dibuat |
| 7 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: siswa

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | user\_id | INT | 11 | FK ke users |
| 3 | nis | VARCHAR | 20 | Nomor Induk Siswa |
| 4 | nama | VARCHAR | 100 | Nama siswa |
| 5 | tanggal\_lahir | DATE | - | Tanggal lahir |
| 6 | jenis\_kelamin | ENUM | Laki-laki/Perempuan | Jenis kelamin |
| 7 | agama\_id | INT | 11 | FK ke agama |
| 8 | kelas\_id | INT | 11 | FK ke kelas |
| 9 | jurusan\_id | INT | 11 | FK ke jurusan |
| 10 | alamat | TEXT | - | Alamat |
| 11 | no\_hp | VARCHAR | 20 | Nomor HP |
| 12 | created\_at | DATETIME | - | Tanggal dibuat |
| 13 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: jadwal

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | kelas\_id | INT | 11 | FK ke kelas |
| 3 | mapel\_id | INT | 11 | FK ke mapel |
| 4 | guru\_id | INT | 11 | FK ke guru |
| 5 | tahun\_akademik\_id | INT | 11 | FK ke tahun\_akademik |
| 6 | hari | ENUM | Senin-Sabtu | Hari pelajaran |
| 7 | jam\_mulai | TIME | - | Jam mulai |
| 8 | jam\_selesai | TIME | - | Jam selesai |
| 9 | created\_at | DATETIME | - | Tanggal dibuat |
| 10 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: pertemuan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | kelas\_id | INT | 11 | FK ke kelas |
| 3 | mapel\_id | INT | 11 | FK ke mapel |
| 4 | nama\_pertemuan | VARCHAR | 100 | Nama/topik pertemuan |
| 5 | tanggal | DATE | - | Tanggal pertemuan |
| 6 | topik | VARCHAR | 255 | Topik pertemuan |
| 7 | video\_youtube | VARCHAR | 255 | Link video (opsional) |
| 8 | created\_at | DATETIME | - | Tanggal dibuat |
| 9 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: wali\_kelas

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | kelas\_id | INT | 11 | FK ke kelas |
| 3 | guru\_id | INT | 11 | FK ke guru |
| 4 | tahun\_akademik\_id | INT | 11 | FK ke tahun\_akademik |
| 5 | created\_at | DATETIME | - | Tanggal dibuat |
| 6 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: absensi

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | siswa\_id | INT | 11 | FK ke siswa |
| 3 | tanggal | DATE | - | Tanggal absensi |
| 4 | status | ENUM | Hadir/Sakit/Izin/Alpha | Status kehadiran |
| 5 | created\_at | DATETIME | - | Tanggal dibuat |
| 6 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: nilai

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | siswa\_id | INT | 11 | FK ke siswa |
| 3 | mapel\_id | INT | 11 | FK ke mapel |
| 4 | semester | ENUM | 1/2 | Semester |
| 5 | uts | DECIMAL | 5,2 | Nilai UTS |
| 6 | uas | DECIMAL | 5,2 | Nilai UAS |
| 7 | tugas | DECIMAL | 5,2 | Nilai tugas |
| 8 | akhir | DECIMAL | 5,2 | Nilai akhir |
| 9 | created\_at | DATETIME | - | Tanggal dibuat |
| 10 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: materi

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | guru\_id | INT | 11 | FK ke guru |
| 3 | mapel\_id | INT | 11 | FK ke mapel |
| 4 | kelas\_id | INT | 11 | FK ke kelas |
| 5 | judul | VARCHAR | 100 | Judul materi |
| 6 | deskripsi | TEXT | - | Deskripsi materi |
| 7 | file | VARCHAR | 255 | File materi |
| 8 | created\_at | DATETIME | - | Tanggal dibuat |
| 9 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: tugas

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | guru\_id | INT | 11 | FK ke guru |
| 3 | mapel\_id | INT | 11 | FK ke mapel |
| 4 | kelas\_id | INT | 11 | FK ke kelas |
| 5 | deskripsi | TEXT | - | Deskripsi tugas |
| 6 | deadline | DATETIME | - | Deadline tugas |
| 7 | file | VARCHAR | 255 | File tugas (opsional) |
| 8 | created\_at | DATETIME | - | Tanggal dibuat |
| 9 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: pengumpulan\_tugas

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | tugas\_id | INT | 11 | FK ke tugas |
| 3 | siswa\_id | INT | 11 | FK ke siswa |
| 4 | file\_tugas | VARCHAR | 255 | File tugas yang dikumpulkan |
| 5 | status | ENUM | Belum Dikumpulkan/Sudah Dikumpulkan/Terlambat | Status pengumpulan |
| 6 | nilai | INT | 3 | Nilai tugas (opsional) |
| 7 | catatan | TEXT | - | Catatan penilaian |
| 8 | created\_at | DATETIME | - | Tanggal dibuat |
| 9 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: pretest

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | pertemuan\_id | INT | 11 | FK ke pertemuan |
| 3 | judul | VARCHAR | 100 | Judul pretest |
| 4 | created\_at | DATETIME | - | Tanggal dibuat |
| 5 | updated\_at | DATETIME | - | Tanggal update |

## Tabel: pretest\_soal

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Nama Atribut | Tipe Data | Size | Keterangan |
| 1 | id | INT | 11 | Primary Key, Auto Increment |
| 2 | pretest\_id | INT | 11 | FK ke pretest |
| 3 | soal | TEXT | - | Isi soal |
| 4 | pilihan\_a | VARCHAR | 255 | Pilihan A |
| 5 | pilihan\_b | VARCHAR | 255 | Pilihan B |
| 6 | pilihan\_c | VARCHAR | 255 | Pilihan C |
| 7 | pilihan\_d | VARCHAR | 255 | Pilihan D |
| 8 | jawaban\_benar | CHAR | 1 | Kunci jawaban (a/b/c/d) |
| 9 | created\_at | DATETIME | - | Tanggal dibuat |
| 10 | updated\_at | DATETIME | - | Tanggal update |