



Jurusan Teknologi Informasi Politeknik Negeri Malang

## FORMAT LEMBAR JAWABAN

### UTS Praktikum Mata Kuliah Basis Data

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#### JAWABAN:

Nomor	Jawaban																																										
1	<p>mahasiswa</p> <pre>create table mahasiswa( nim int(3) not null, nama_mhs varchar(10) not null, primary key(nim));</pre> <p>matakuliah</p> <pre>CREATE TABLE `uts`.`matakuliah`( `kode_mk` VARCHAR(10) NOT NULL , `nama_mk` VARCHAR(30) NOT NULL , `kode_dosen` VARCHAR(10) NOT NULL , PRIMARY KEY (`kode_mk`));</pre> <p>dosen</p> <pre>CREATE TABLE `uts`.`dosen` ( `kode_dosen` VARCHAR(10) NOT NULL AUTO_INCREMENT , `nama_dosen` VARCHAR(30) NOT NULL , PRIMARY KEY (`kode_dosen`));</pre> <p>nilai</p> <pre>CREATE TABLE `uts`.`nilai` ( `nim` INT(10) NOT NULL , `kode_mk` VARCHAR(10) NOT NULL , `nilai_huruf` VARCHAR(10) NOT NULL );</pre>																																										
2	<p>mahasiswa</p> <table><tr><th>#</th><th>Field</th><th>Type</th><th>Null</th><th>Key</th><th>Default</th></tr><tr><td>1</td><td>nim</td><td>int(3)</td><td>NO</td><td>PRI</td><td>&lt;NULL&gt;</td></tr><tr><td>2</td><td>nama_mhs</td><td>varchar(10)</td><td>NO</td><td></td><td>&lt;NULL&gt;</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	#	Field	Type	Null	Key	Default	1	nim	int(3)	NO	PRI	<NULL>	2	nama_mhs	varchar(10)	NO		<NULL>																								
#	Field	Type	Null	Key	Default																																						
1	nim	int(3)	NO	PRI	<NULL>																																						
2	nama_mhs	varchar(10)	NO		<NULL>																																						

## matakuliah

#	Field	Type	Null	Key	Default
1	kode_mk	varchar(10)	NO	PRI	<NULL>
2	nama_mk	varchar(30)	NO		<NULL>
3	kode_dosen	varchar(10)	NO		<NULL>

## dosen

#	Field	Type	Null	Key	Default
1	kode_dosen	varchar(10)	NO	PRI	<NULL>
2	nama_dosen	varchar(30)	NO		<NULL>

## nilai

#	Field	Type	Null	Key	Default
1	nim	int(10)	NO		<NULL>
2	kode_mk	varchar(10)	NO		<NULL>
3	nilai_huruf	varchar(10)	NO		<NULL>

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## Mahasiswa

```
INSERT INTO `mahasiswa` (`nim`, `nama_mhs`)
VALUES ('123', 'Ani'), ('124', 'Budi'),
('125', 'Christine'), ('127', 'Farid');
```

## Matakuliah

```
INSERT INTO `matakuliah` (`kode_mk`, `nama_mk`, `kode_dosen`)
VALUES ('DB', 'Database', 'ATW'),
('PBO', 'Pemrograman Berorientasi Objek', 'PRM'),
('MM', 'Multimedia', 'EAP');
```

## Dosen

```
INSERT INTO `dosen` (`kode_dosen`, `nama_dosen`)
VALUES ('ATW', 'Atif Winda, S.ST., M.Sc.'),
('PRM', 'Prima Ayundiyasti, S.ST., M.Sc.'),
('EAP', 'Ellanda A. Putri, S.ST., M.Sc.');
```

## Nilai

```
INSERT INTO `nilai` (`nim`, `kode_mk`, `nilai_huruf`)
VALUES ('123', 'DB', 'A'), ('123', 'PBO', 'B+'), ('123', 'MM', 'B+'),
('124', 'DB', 'B'), ('124', 'PBO', 'A'), ('124', 'MM', 'B+'),
('125', 'DB', 'B+'), ('125', 'PBO', 'A'), ('125', 'MM', 'A');
```

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## Mahasiswa

#	nim	nama_mhs
1	123	Ani
2	124	Budi
3	125	Christine
4	127	Farid

## Matakuliah

#	kode_mk	nama_mk	kode_dosen
1	DB	Database	ATW
2	MM	Multimedia	EAP
3	PBO	Pemrograman Berorientasi Objek	PRM

## Dosen

#	kode_dosen	nama_dosen
1	ATW	Atif Winda, S.ST., M.Sc.
2	EAP	Ellanda A. Putri, S.ST., M.Sc.
3	PRM	Prima Ayundlayasti, S.ST., M.S

## Nilai

#	nim	kode_mk	nilai_huruf
1	123	DB	A
2	123	PBO	B+
3	123	MM	B+
4	124	DB	B
5	124	PBO	A
6	124	MM	B+

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```
select nim as id,nama_mhs as nama_dosen_mahasiswa from mahasiswa
-> union
-> select* from dosen;
```

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```
select nilai_huruf as Nilai,COUNT(nilai_huruf) as Jumlah FROM tabel_nilai GROUP BY nilai_huruf ORDER BY "Jumlah(Urut Dari Yang Terbanyak)" DESC;
```

7

8

```
43 INSERT INTO nilai VALUES (126, 'MM', 'A');
```

Output - SQL 1 execution

```
Executed successfully in 0.018 s.
1 row affected.
Line 1, column 1

Execution finished after 0.021 s, no errors occurred.
```

Tidak terjadi error karena nim dan kode\_mk di table tersebut tidak foreign key

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```
43 INSERT INTO nilai VALUES (126, 'MM', 'A');
```

Output - SQL 1 execution

Executed successfully in 0.018 s.  
1 row affected.  
Line 1, column 1

Execution finished after 0.021 s, no errors occurred.