

# UJI COBA SQL QUERY

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## 1. Create Table

```
test.sql
1  USE test;
2
3  CREATE TABLE mahasiswa(
4      nim INT(2),
5      nama VARCHAR(255),
6      nomor_telepon VARCHAR(20),
7      PRIMARY KEY(nim)
8  );
9
10 CREATE TABLE mata_kuliah(
11     kode CHAR(3),
12     nama VARCHAR(255),
13     sks INT(1),
14     PRIMARY KEY(kode)
15 );
16
17 CREATE TABLE nilai(
18     id INT AUTO_INCREMENT,
19     nim INT(2),
20     kode_matakuliah CHAR(3),
21     nilai_huruf CHAR(2),
22     PRIMARY KEY(id)
23 );
24
25 ALTER TABLE nilai ADD FOREIGN KEY nim_idxfk (nim) REFERENCES mahasiswa (nim) ON DELETE CASCADE;
26 ALTER TABLE nilai ADD FOREIGN KEY kode_matakuliah_idxfk (kode_matakuliah) REFERENCES mata_kuliah(kode) ON DELETE CASCADE;
27
```

fieldCount	affectedRows	insertId	serverStatus	warningCount	message	protocol41	changedRows
0	0	0	10	0		true	0
0	0	0	10	1		true	0
0	0	0	10	1		true	0
0	0	0	10	1		true	0
0	0	0	10	0	&Records: 0 Duplicates: 0 Warnings: 0	true	0
0	0	0	10	0	&Records: 0 Duplicates: 0 Warnings: 0	true	0
0	0	0	2	0		true	0

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> mahasiswa		0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> mata_kuliah		0	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
<input type="checkbox"/> nilai		0	InnoDB	utf8mb4_0900_ai_ci	48.0 KiB	-
3 tables	Sum	0	InnoDB	utf8mb4_0900_ai_ci	80.0 KiB	0 B

☐ Check all

## 2. Insert Data

```
-- ALTER TABLE mtlal ADD FOREIGN KEY kode_matakuliah_idxfk (kode_matakuliah) REFERENCES mata_kuliah(kode) ON DELETE CASCADE;

INSERT INTO mahasiswa VALUES (1, 'Ani Rahmawati', NULL),
(2, 'Budi Raharjo', '0852525526'),
(3, 'Charlie Setiabudi', '0852525527'),
(4, 'Diandra Paramita', '0852525528'),
(5, 'Eka Putri', '0852525529');

INSERT INTO mata_kuliah (kode, nama) VALUES ('BDD', 'Basis Data Dasar'), ('PBO', 'Pemrograman Berorientasi Objek'),
('MMT', 'Multimedia Terapan'), ('SPK', 'Sistem Pendukung Keputusan'),
('KCB', 'Kecerdasan Buatan'), ('ASD', 'Algoritma dan Struktur Data');

-- SELECT * FROM mata_kuliah WHERE kode = 'ASD';
```

	nim	nama	nomor_telepon
<input type="checkbox"/>	1	Ani Rahmawati	NULL
<input type="checkbox"/>	2	Budi Raharjo	0852525526
<input type="checkbox"/>	3	Charlie Setiabudi	0852525527
<input type="checkbox"/>	4	Diandra Paramita	0852525528
<input type="checkbox"/>	5	Eka Putri	0852525529

### 3. SELECT

```
SELECT * FROM mata_kuliah WHERE kode = 'ASD';
```

kode	nama	sks
ASD	Algoritma dan Struktur Data	null

### 4. UPDATE

```

38 -- SELECT * FROM mata_kuliah WHERE kode = 'ASD';
39
40 UPDATE mahasiswa SET nomor_telepon = '0852525525' WHERE nim = 1;
41 SELECT mahasiswa.nama, mahasiswa.nomor_telepon FROM mahasiswa WHERE nim = 1;
42
43 -- DELETE FROM mata_kuliah WHERE kode = 'BDD';

```

Results	Results	Res
nama	nomor_telepon	
Ani Rahmawati	0852525525	

## 5. DELETE

```

DELETE FROM mata_kuliah WHERE kode = 'BDD';
SELECT * FROM mata_kuliah;

```

Results	Results	Results 2	Resu
kode	nama	sks	
ASD	Algoritma dan Struktur Data	null	
KCB	Kecerdasan Buatan	null	
MMT	Multimedia Terapan	null	
PBO	Pemrograman Berorientasi Objek	null	
SPK	Sistem Pendukung Keputusan	null	

## 6. Insert data di Table nilai

```

INSERT INTO nilai (nim, kode_matakuliah, nilai_huruf) VALUES (1, 'PBO', 'A'),
(1, 'ASD', 'B'),
(1, 'KCB', 'C'),
(1, 'MMT', 'D'), (1, 'SPK', 'E');
SELECT * FROM nilai;

```

id	nim	kode_matakuliah	nilai_huruf
1	1	PBO	A
2	1	ASD	B
3	1	KCB	C
4	1	MMT	D
5	1	SPK	E

#### 7. UPDATE semua sks di table matakuliah jadi 2

```

-- SELECT * FROM nilai;

UPDATE matakuliah SET sks = 2;
SELECT * FROM matakuliah;

```

Results 2		Results 3	Results 3	
OI	<b>kode</b>	<b>nama</b>	<b>sks</b>	
	ASD	Algoritma dan Struktur Data	2	
	KCB	Kecerdasan Buatan	2	
	MMT	Multimedia Terapan	2	
	PBO	Pemrograman Berorientasi Objek	2	
	SPK	Sistem Pendukung Keputusan	2	

8. Delete Data mata kuliah yang Bernama system pendukung Keputusan

```

✦ SELECT * FROM mata_kuliah;

DELETE FROM mata_kuliah WHERE nama = "Sistem Pendukung Keputusan";

```

Results 3		Results 3	Results 3	
OI	<b>kode</b>	<b>nama</b>	<b>sks</b>	
	ASD	Algoritma dan Struktur Data	2	
	KCB	Kecerdasan Buatan	2	
	MMT	Multimedia Terapan	2	
	PBO	Pemrograman Berorientasi Objek	2	