

BASIS DATA LANJUT



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**PRODI D3 TEKNIK INFORMATIKA
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```
SQL> CREATE OR REPLACE TRIGGER trg_insert_musisi
2 BEFORE INSERT ON MUSISI
3 FOR EACH ROW
4 BEGIN
5     IF :NEW.id IS NULL THEN
6         SELECT COUNT(*) INTO :NEW.id FROM MUSISI;
7         :NEW.id := :NEW.id + 1;
8     END IF;
9 END;
10 /
```

Trigger created.

```
SQL> INSERT INTO MUSISI (nama) VALUES ('John Doe');
```

1 row created.

```
SQL> SELECT * FROM MUSISI;
```

ID	NAMA
1	John Doe

```
SQL> CREATE OR REPLACE TRIGGER trg_update_musisi
2 BEFORE UPDATE ON MUSISI
3 FOR EACH ROW
4 BEGIN
5     IF :NEW.id IS NULL THEN
6         SELECT COUNT(*) INTO :NEW.id FROM MUSISI;
7         :NEW.id := :NEW.id + 1;
8     END IF;
9 END;
10 /
```

Trigger created.

```
SQL> UPDATE MUSISI SET nama = 'Jane Doe' WHERE id IS NULL;
```

0 rows updated.

```
SQL> SELECT * FROM MUSISI;
```

ID	NAMA
1	John Doe

```
SQL> CREATE OR REPLACE TRIGGER trg_update_musisi
2 BEFORE UPDATE ON MUSISI
3 FOR EACH ROW
4 BEGIN
5     IF :NEW.id IS NULL THEN
6         SELECT COUNT(*) INTO :NEW.id FROM MUSISI;
7         :NEW.id := :NEW.id + 1;
8     END IF;
9 END;
10 /
```

Trigger created.

```
SQL> UPDATE MUSISI SET nama = 'Jane Doe' WHERE id IS NULL;
```

0 rows updated.

```
SQL> SELECT * FROM MUSISI;
```

ID

NAMA

TGL_LAHIR

1
John Doe