

MENU QUERY- LANGUAGE dalam ISQL

SQL adalah bahasa query interaktif, yg merupakan sistem dasar komputer untuk pemeliharaan record.

Sebagai sebuah sistem manajemen database SQL berisi program yg handal untuk mengerjakan tugas-tugas manajemen data, yg secara nyata mengurangi jumlah waktu untuk mengorganisasi, menyimpan dan mengakses informasi.

```
Informix-SQL: Form  Report  Query-language  User menu  Database  Table  Exit
Use Informix Structured Language
----- Press CTRL-
W for help - - - -
```

```
SQL : New Run Modify Use-editor Output Choose save Info Drop
Exit
Enter new SQL statement using the SQL editor
----- -filkom ----- Press CTRL-
W for help - - - -
```

```
NEW :   ESC   = Done editing       CTRL-A = Type over/insert
        CTRL-x = Delete character   CTRL-D = Delete rest of line
----- -filkom ----- Press CTRL-
W for help - - - -
```

```
MODIFY:  ESC   = Done editing       CTRL-A = Type
over/insert
        CTRL-x = Delete character   CTRL-D = Delete rest of line
----- -filkom ----- Press CTRL-
W for help - - - -
```

```
OUTPUT : Printer New-file Append-file To-pipe Exit
Send query results to a printer
----- -filkom ----- Press CTRL-
W for help - - - -
```

CHOOSE >>

Choose a command file with the Arrow Keys, or enter a name, then press Return

----- -filkom - - - - - Press CTRL-
W for help - - - -
Cek_npm load_data
Ins_biodata unload_dt

SAVE >>_

Enter the name you want to assign to the command file

----- -filkom - - - - - Press CTRL-
W for help - - - -

INFO FOR TABLE >>

Choose a table with the Arrow Keys, or enter a name, then press Return

----- -filkom - - - - - Press CTRL-
W for help - - - -
informix.t_biaya
informix.t_coba
infromix.t_master

DROP COMMAND FILE>>_

Enter the nama of the sql command file you wish to drop from the database

----- -filkom - - - - - Press CTRL-
W for help - - - -
Cek_npm load_data
Ins_biodata unload_dt

Contoh statement sql

NEW : **ESC** = Done editing **CTRL-A** = Type over/insert
 CTRL-x = Delete character **CTRL-D** = Delete rest of line

----- -filkom - - - - - Press CTRL-
W for help - - - -

Select npm,nama,telpon,kelas,ipk from t_master where ipk>3.00
Order by kelas,ipk

Setelah mengetik statement tsb, tekan tombol 'Esc' maka akan tampil menu SQL. Jika ingin menampilkan output dari statement tsb, maka pilih 'Run' pada menu sql, dan hasilnya akan tampak sbb :

```

RUN :  Next  Restart  Exit
Display the next page of query results
-----filkom----- Press CTRL-
W for help -----
      Npm          nama          telpon          kelas          ipk
10197348      Evita Adjani      8727541         4KA02          3,52
10197521      Sheila            4212817         4KA02          3,47
10197634      Indra              7342882         4KA03          3,61
10197867      Hendrawan         8727538         4KA06          3,25
10197491      Febrian           7321455         4KA07          3,28
    
```

Ada 5 tipe statement SQL yang digunakan di Informix-SQL

1. DATA DEFINITION :

- α Create database
- α Database
- α Close database
- α Drop database
- α Create table
- α Alter table
- α Rename table
- α Drop table
- α Create view
- α Drop view
- α Create synonym
- α Drop synonym
- α Rename column
- α Create index
- α Alter index
- α Drop index
- α Update statistics

2. DATA MANIPULATION :

- /Delete
- /Insert
- /Update
- /Select

3. DATA ACCESS :

- φ Grant
- φ Revoke
- φ Lock table
- φ unlock table
- φ Set lock mode

4. DATA INTEGRITY :

- β Recover table
- β Start database

5. AUXILIARY :

- f Check table
- f Repair table
- f Info
- f Load
- f Unload
- f Output
- f Set explain

Contoh- contoh statement query language

```

NEW :  ESC   = Done editing      CTRL-A = Type over/insert
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-----filkom----- Press CTRL-
W for help -----

SELECT npm,nama,telpon,kelas,ipk FROM t_master WHERE ipk>3.00 ORDER
BY kelas,ipk DESC
    
```

```
NEW :   ESC   = Done editing      CTRL-A = Type over/insert
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----- -filkom ----- Press CTRL-
W for help - - - -
SELECT * FROM t_pelanggan
```

```
NEW :   ESC   = Done editing      CTRL-A = Type over/insert
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----- -filkom ----- Press CTRL-
W for help - - - -
SELECT no_pel,nama,t elpon FROM t_pelanggan WHERE no_pel[1]='B'
```

```
NEW :   ESC   = Done editing      CTRL-A = Type over/insert
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----- -filkom ----- Press CTRL-
W for help - - - -
SELECT npm,nama,kelas
FROM t_master
WHERE npm[1]='1' and npm[4,5]='97'
ORDER BY kelas,nama
```

```
NEW :   ESC   = Done editing      CTRL-A = Type over/insert
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----- -filkom ----- Press CTRL-
W for help - - - -
SELECT npm,nama FROM t_mast er WHERE npm[1] mat ches'[1234]'
```

```
NEW :   ESC   = Done editing      CTRL-A = Type over/insert
        CTRL-x = Delete character  CTRL-D = Delete rest of line
----- -filkom ----- Press CTRL-
W for help - - - -
Select npm,nama f rom t _mast er wher e npm[1]='1' or npm[1]='2' or npm[1]='3'
or npm[1]='4'
```

```
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----- -filkom ----- Press CTRL-
W for help - - - -
```

```
SELECT npm,nama,kelas FROM t_master WHERE nama matches '*ari*'
```

```
NEW :   ESC   = Done editing      CTRL-A = Type over/insert
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W for help -----

SELECT * FROM t_master WHERE kelas[1] BETWEEN '1' and '3'
```

```
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-----filkom----- Press CTRL-
W for help -----

Select * from t_master where kelas[1]='1' or kelas[1]='2' or kelas[1]='3'
```

```
NEW :   ESC   = Done editing      CTRL-A = Type over/insert
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W for help -----

SELECT * FROM t_master WHERE kelas BETWEEN '4KA05' and '4KA06'
```

```
NEW :   ESC   = Done editing      CTRL-A = Type over/insert
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-----filkom----- Press CTRL-
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SELECT UNIQUE kelas FROM t_master WHERE kelas[1]='4' ;

SELECT COUNT(*) FROM t_master WHERE kelas='4KA06' ;

SELECT npm,nama,MONTH(tgl_lahir) FROM t_master
```

```
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SELECT npm,jml_bayar,tgl_bayar,ket_bayar from t_uang_klh
WHERE npm IN (SELECT npm from t_master WHERE kelas[1,3]='4KA') ;

SELECT t_master.npm,nama,kelas,jml_bayar,tgl_bayar,ket_bayar
FROM t_master,t_uang_klh
WHERE t_master.npm=t_uang_klh.npm ;
```

```
SELECT no_pel,nama,alamat  
INTO nomor,nama_pel,almt_pel  
FROM t_pelanggan ;
```

```
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----- -filkom - - - - - Press CTRL-  
W for help - - - -  
  
INSERT INTO t_pelanggan  
VALUES ('B1504','Bambang','Merpati III') ;  
  
INSERT INTO t_pelanggan (no_pel,alamat)  
VALUES ('C2503','Camar III') ;  
  
INSERT INTO t_master(npm,nama,kelas)  
VALUES('10197348','Evita','4KA02') ;  
  
SELECT np,nm_mhs,kls_mhs FROM t_percobaan  
INSERT INTO t_master(npm,nama,kelas)
```

```
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----- -filkom - - - - - Press CTRL-  
W for help - - - -  
  
UPDATE t_pelanggan SET keterangan = null ;  
  
UPDATE t_pelanggan SET kode_pos = '10510'  
WHERE alamat = 'Jakarta Pusat' ;  
  
UPDATE t_uang_klh SET ket_bayar='L'  
WHERE npm IN (SELECT npm FROM t_master where periode='1') ;  
  
UPDATE t_uang_klh SET ket_bayar='L'  
WHERE npm IN  
(SELECT npm FROM t_master WHERE periode matches '[123]') ;  
  
UPDATE t_pelanggan SET alamat = 'Akses Kelapa Dua'  
WHERE alamat = 'Akses UI'
```

```
NEW :   ESC   = Done editing       CTRL-A = Type over/insert  
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----- -filkom - - - - - Press CTRL-  
W for help - - - -  
  
DELETE FROM t_pelanggan ;  
DELETE FROM t_pelanggan WHERE no_pel = 'A1054' ;  
DELETE FROM t_master WHERE ipk < 0,50 AND kelas[1]='5' ;
```

```
DELETE FROM t_master WHERE ket_lulus='K' ;

CREATE DATABASE filkom ;

CREATE TABLE t_master
  ( npm      char(8),
    nama     char(25),
    alamat   char(40),
    kelas    char(5) ) ;

ALTER TABLE t_barang ADD (nama_brg char(20)) ;

RENAME COLUMN t_barang nama_brg TO nama_barang ;

RENAME TABLE t_master TO t_biodata
```

```
NEW :   ESC   = Done editing      CTRL-A = Type over/insert
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-----filkom----- Press CTRL-
W for help - - - -
--delete from t_pelanggan where telpon is null
select * from t_pelanggan where telpon is null ;

select no_pel,nama_pel,kota from t_pelanggan
where kota matches '[A-J]*'
```