Pertemuan 9 - 14 SQL

DDL
Operasi DDL
- Create
- Drop
- Alter

DML
Constraint model data relasional
1. Domain constraint
2. Key constraint
3. Entity integrity constraint
4. Referential integrity constraint

Operasi **insert, delete, modify**

Operasi **select**
Kondisi 1 dan kondisi yg lain dihubungkan dg operator
Boolean spt and, or, not and, not or, dst.

Fungsi aggregate ada 5 yaitu:
1. Sum()
2. Avg()
3. Max()
4. Min()
5. Count()
Nomor 1 - 4 → kolom, nomor 5 → baris, record

Table 7.2 Summary of SQL Syntax

CREATE TABLE \<table name\> (\<column name\> \<column type\> [\<attribute constraint\>]
          { , \<column name\> \<column type\> [\<attribute constraint\>] }
          [\<table constraint\> { , \<table constraint\> }])

DROP TABLE \<table name\>   ALTER TABLE \<table name\> ADD \<column name\> \<column type\>
SELECT [DISTINCT] \<attribute list\>   FROM (\<table name\> { \<alias\> } | \<joined table\>) { , (\<table name\> { \<alias\> } | \<joined table\>) }   [WHERE \<condition\>]   [GROUP BY \<grouping attributes\> [HAVING \<group selection condition\>]]   [ORDER BY \<column name\> [\<order\>] { , \<column name\> [\<order\>] }]
\<attribute list\> ::= (* | (\<column name\> | \<function\> (([DISTINCT] \<column name\> | *)))   { , (\<column name\> | \<function\> (([DISTINCT] \<column name\> | *)) }) })
\<grouping attributes\> ::= \<column name\> { , \<column name\> }
\<order\> ::= (ASC | DESC)
INSERT INTO \<table name\> [(\<column name\> { , \<column name\> })]   (VALUES (\<constant value\> , { \<constant value\> }) { , (\<constant value\> { , \<constant value\> }) } | \<select statement\>)
DELETE FROM \<table name\>   [WHERE \<selection condition\>]
UPDATE \<table name\>   SET \<column name\> = \<value expression\> { , \<column name\> = \<value expression\> }   [WHERE \<selection condition\>]
CREATE [UNIQUE] INDEX \<index name\>   ON \<table name\> (\<column name\> [\<order\>] { , \<column name\> [\<order\>] })   [CLUSTER]
DROP INDEX \<index name\>
CREATE VIEW \<view name\> [(\<column name\> { , \<column name\> })]   AS \<select statement\>
DROP VIEW \<view name\>

NOTE: The commands for creating and dropping indexes are not part of standard SQL.