

DAY FOURTEEN ONE

(SQL) DAY ONE (basic) as

① SQL keyword: Select ... from ... where ...

Select distinct : (return only distinct (different) values) .

operator: =, <, >, <=, >=, BETWEEN, LIKE, IN.

And, Or, Not, ORDER BY ... ASC/DESC

② Insert into ... value (...) , IS NULL ~ IS NOT NULL

update ... set ... where ... , delete from ... where ...

③ Select top ... percent ... from ...

DAY TWO (functions and operators)

① MIN() , MAX() , COUNT() , AVG() , SUM()

② LIKE operator: % - represent 0, 1, or multiple characters.
_ - represents single character.

③ In operator: specify multiple values in a WHERE clause.

④ between operator: selects values with a given range (inclusive) .

P.S. ① ALTER TABLE xxx

ADD COLUMN ... AFTER ...;

② show columns from users .

DAY THREE (JOIN):

① JOIN clause is used to combine rows from two or more tables.
based on a related column between them.

② four different types of SQL JOINs:

(inner) join



LEFT (OUTER) join



RIGHT (OUTER) join



FULL (OUTER) join



③ Syntax: select ... from ... inner join ... on ...

DAY FOUR (group)

① union operator is used to combine the result-set of two or more select statements. (same number of columns and have similar data types)

union all is used to allow duplicate values.

② group by statement is often used with aggregate functions.

select ... from ... where ... group by col-na

③ HAVING clause. ... group by col-na having condition subquery

④ EXISTS is used to test for the existence of any record in a sub.

ANY returns true if one ... ALL returns true if all ...

⑤ select ... into newtable [in externaldb] ...

⑥ insert into ... select ... ⑦ SQL IFNULL() , ISNULL() , COALESCE()
and NVL() functions. ⑧ -- Comments

DAY FIVE (Database)

① Create database .. ; drop database .. ; create table .. ;

drop table ; Alter table ... add col-name / drop col-name

MySQL → Alter table . tana modify column col-na;

② SQL constraints are used to specify rules for data in a table.

create constraints.

constraints type : NOT NULL, UNIQUE, PRIMARY KEY, FOREIGN

KEY, CHECK (ensures that all values in a column satisfies

a specific condition). DEFAULT, INDEX.

Used to create and retrieve data from the database very quickly

* CHECK: eg:- ALTER TABLE persons ADD CHECK (Age >= 18)

or you can name it - ALTER TABLE persons ADD CONSTRAINT "CHECK"

drop a constraint - ALTER TABLE persons DROP CHECK CHK "" tables

* INDEX: CREATE INDEX statement is used to create indexes in.

Syntax: CREATE INDEX ind-na ON tana (col1, col2 ...)

- CREATE UNIQUE INDEX: CREATE UNIQUE INDEX in-na ON tana(...)

- DROP INDEX (MySQL): ALTER TABLE tana DROP INDEX in-na

④ * AUTO INCREMENT: add AUTO INCREMENT keyword when defined.

or we can specify: ALTER TABLE persons AUTO INCREMENT = 100

⑤ Dates: MySQL: DATE, DATETIME, TIMESTAMP, YEAR.

DAY SIX (ADVANCE)

① SQL VIEWS: SYNTAX: CREATE VIEW vi-na AS SELECT col, col2,

* NOTE: A view always shows up-to-date data.

* USAGE: assuming #vi-na = [Current PList]

we can query the view: Select * FROM [Current PList]

- updating a view: CREATE OR REPLACE VIEW vi-na AS "" for protection

② SQL Injection based on batched SQL statements → use SQL parameters.

③ Hosting: If your web server is hosted by an Internet Service Provider (ISP), you will have to look for SQL hosting plans.

DAY SEVEN (REFERENCE):