View in SQL

- General view
 - Virtual tables derived from base tables
 - Logical data independence
 - ➤ Security of data
 - Update problems of view
- Temporary view and recursive query
 - > WITH
 - > RECURSIVE



Update problems of view

- CREATE VIEW YoungSailor AS SELECT sid, sname, rating FROM Sailors WHERE age<26;
- CREATE VIEW Ratingavg AS SELECT rating, AVG(age)
 FROM Sailors
 GROUP BY rating;



- In order to access database in programs, and take further process to the query results, need to combine SQL and programming language (such as C / C++, etc.)
- Problems should be solved:
 - ➤ How to accept SQL statements in programming language
 - How to exchange data and messages between programming language and DBMS
 - ➤ The query result of DBMS is a set, how to transfer it to the variables in programming language
 - ➤ The data type of DBMS and programming language may not the same exactly.