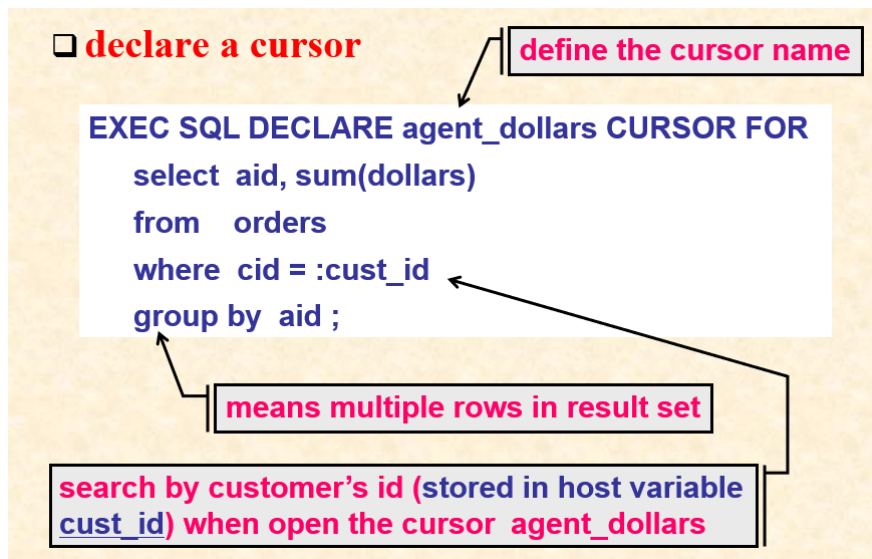


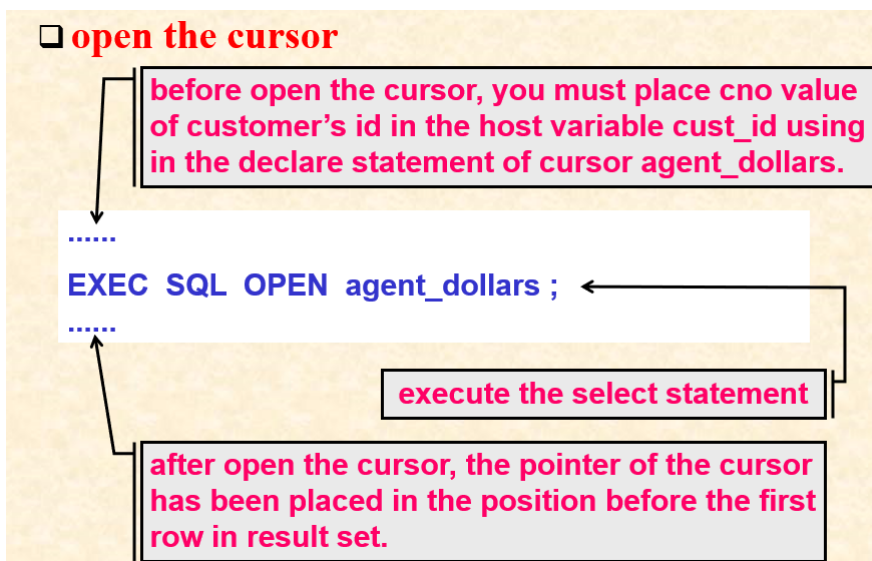
Chapter6 数据交换

数据交换的管理

游标定义



打开游标



取数据

❑ fetch the result rows

```
while (TRUE) {           /* loop to fetch rows */
    exec sql fetch agent_dollars
        into :agent_id, :dollar_sum;

    printf("%s %11.2f\n", agent_id, dollar_sum);
}                         /* end fetch loop */
```

- 1) move the pointer of cursor to the next row, then the next row is current row
- 2) fetch the current row's value into host variables: agent's id to agent_id, summation of dollars to dollar_sum

❑ end fetch loop

```
exec sql whenever not found goto finish;
.....
while (TRUE) {
    exec sql fetch ..... into .....;
    .....
}
.....
finish:  exec sql close agent_dollars;
```

declare 'not found' event processing

execute this statement after fetch loop when 'not found' event is occur

关闭游标

❑ close the cursor

```
.....
EXEC SQL CLOSE agent_dollars ;
.....
```

- 1) close the cursor, and release the result set and other resource in DBMS
- 2) after close the cursor, it can be opened again

动态SQL

什么是动态SQL

在嵌入式SQL编程中，很多时候编程人员无法确定到底应该做什么工作，所使用的SQL语句也不能预先确定，需要根据程序的实际情况来决定，也就是根据实际情况来生成并调用SQL语句。这样的SQL语句被称为动态SQL。

动态SQL语句的可变性

SQL语句正文动态可变

变量个数动态可变

类型动态可变

SQL语句引用对象动态可变