# BaiTap02-SQL

1. Tạo chuỗi “Tk LIKE ‘111%’ OR Tk LIKE ‘112%’ OR Tk LIKE ‘131%’” từ chuỗi cho trước “111,112,131”
2. Tạo chuỗi từ bảng “A,B,C” từ bảng dữ liệu sau:

|  |  |  |
| --- | --- | --- |
| Id | Code | Name |
| 1 | A | Anh |
| 2 | B | Bỉ |
| 3 | C | Canada |

1. Tạo table từ chuỗi “A,B,C”

|  |  |
| --- | --- |
| Id | Code |
| 1 | A |
| 2 | B |
| 3 | C |

1. Tạo table [#tblResult] từ table [#tblResource]

[#tblResource]

|  |  |  |
| --- | --- | --- |
| Id | Code | Value |
| 1 | A | 100 |
| 2 | B | 200 |
| 3 | C | 150 |
| 4 | A | 300 |
| 5 | B | 240 |
| 6 | A | 120 |
| 7 | C | 130 |

[#tblResult]

|  |  |  |  |
| --- | --- | --- | --- |
| Id | Order | Code | Value |
| 1 | 1 | A | 100 |
| 1 | 2 | A | 120 |
| 1 | 3 | A | 300 |
| 2 | 1 | B | 200 |
| 2 | 2 | B | 240 |
| 3 | 1 | C | 130 |
| 3 | 2 | C | 150 |

1. Tạo cột Close, Open cho bảng [#tablResult] từ table [#tblResource] theo công thức

Close=Open+Input-Output

Open[Id]=Close[Id-1]

[#tblResource]

|  |  |  |
| --- | --- | --- |
| Id | Code | Open |
| 1 | A | 1 |
| 2 | C | 3 |

[#tblResource]

|  |  |  |  |
| --- | --- | --- | --- |
| Id | Code | Input | Output |
| 1 | A | 1 |  |
| 2 | A | 3 | 2 |
| 3 | A | 1 | 3 |
| 4 | B | 1 | 1 |
| 5 | B | 2 | 1 |
| 6 | C | 1 | 4 |
| 7 | C | 2 | 2 |

[#tblResult]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Id | Code | Open | Input | Output | Close |
| 1 | A | 1 | 1 |  | 2 |
| 2 | A | 2 | 3 | 2 | 3 |
| 3 | A | 3 | 1 | 3 | 1 |
| 4 | B |  | 1 | 1 |  |
| 5 | B |  | 2 | 1 | 1 |
| 6 | C | 3 | 1 | 4 |  |
| 7 | C |  | 2 | 2 |  |

1. Tạo table [#tblResult] từ table [#tblResource]

[#tblResource]

|  |  |  |
| --- | --- | --- |
| Date | Code | Name |
| 01/01/2013 | A | Mr.Nam |
| 15/05/2013 | A | Mr.Tung |
| 01/02/2013 | B | Mrs.Lam |
| 30/04/2013 | B | Mrs.Hoa |
| 12/04/2013 | C | Ms.Hanh |
| 23/06/2013 | C | Ms.Han |
| 30/08/2013 | C | Ms.Huong |

[#tblResource]

|  |  |
| --- | --- |
| Date | Code |
| 01/01/2013 | A |
| 11/03/2013 | A |
| 15/06/2013 | A |
| 01/01/2013 | B |
| 14/02/2013 | B |
| 02/05/2013 | B |
| 11/02/2013 | C |
| 18/04/2013 | C |
| 17/08/2013 | C |

[#tblResult]

|  |  |  |
| --- | --- | --- |
| Date | Code | Name |
| 01/01/2013 | A | Mr.Nam |
| 11/03/2013 | A | Mr.Nam |
| 15/06/2013 | A | Mr.Tung |
| 01/01/2013 | B |  |
| 14/02/2013 | B | Mrs.Lam |
| 02/05/2013 | B | Mrs.Hoa |
| 11/02/2013 | C |  |
| 18/04/2013 | C | Ms.Hanh |
| 17/08/2013 | C | Ms.Hanh |

1. Tạo table [#tblResult] từ table [#tblResource]

[#tblResource]

|  |  |  |
| --- | --- | --- |
| Class | Code | Value |
| F1 | A | 100 |
| F1 | B | 100 |
| F2 | C | 220 |
| F3 | A | 150 |
| F2 | C | 300 |
| F3 | D | 120 |

[#tblResult]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class | A | B | C | D |
| F1 | 100 | 100 |  |  |
| F2 |  |  | 520 |  |
| F3 | 150 |  |  | 120 |

1. Tạo bảng [#tblResult] từ table [#tblResource]

[#tblResource]

|  |  |
| --- | --- |
| Code | Value |
| A | 100 |
| B | 100 |
| C | 220 |
| A | 150 |
| C | 300 |
| D | 120 |
| E | 120 |

[#tblResult]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Code1 | Value1 | Code2 | Value2 | Code3 | Value3 |
| A | 100 | B | 100 | C | 220 |
| A | 100 | C | 300 | D | 120 |
| E | 120 |  |  |  |  |

1. Tạo table [#tblResult] từ table [#tblResource]

[#tblResource]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class | A | B | C | D |
| F1 | 100 | 100 |  |  |
| F2 |  |  | 520 |  |
| F3 | 150 |  |  | 120 |

[#tblResult ]

|  |  |  |
| --- | --- | --- |
| Class | Code | Value |
| F1 | A | 100 |
| F1 | B | 100 |
| F2 | C | 220 |
| F3 | A | 150 |
| F2 | C | 300 |
| F3 | D | 120 |

1. Tạo bảng [#tblResult] từ bảng [#tblResource]

[#tblResource]

|  |  |  |
| --- | --- | --- |
| Class | Code | Value |
| F1 | A | 100 |
| F1 | A | 200 |
| F1 | B | 100 |
| F2 | C | 220 |
| F3 | A | 150 |
| F2 | C | 300 |
| F3 | D | 120 |

[#tblResource]

|  |  |
| --- | --- |
| Class | Sum |
| F1 | 500 |
| F2 | 400 |
| F3 | 600 |

[#tblResult]

|  |  |  |  |
| --- | --- | --- | --- |
| Class | Code | Value | Distribute |
| F1 | A | 100 | 300/(100+200+100)\*500 |
| F1 | B | 100 | 100/(100+200+100)\*500 |
| F2 | C | 520 | 220/(220+300)\*400 |
| F3 | A | 150 | 150/(150+120)\*600 |
| F3 | D | 120 | 120/(150+120)\*600 |

IF OBJECT\_ID('Tempdb..#tblResource1') IS NOT NULL DROP TABLE #tblResource1

CREATE TABLE #tblResource1

(

Id INT Identity(1,1),

Class NVARCHAR(16),

Code NVARCHAR(16),

Value NUMERIC(18,2)

)

IF OBJECT\_ID('Tempdb..#tblResource2') IS NOT NULL DROP TABLE #tblResource2

CREATE TABLE #tblResource2

(

Id INT Identity(1,1),

Class NVARCHAR(16),

Value NUMERIC(18,2)

)

INSERT INTO #tblResource1

SELECT

'F1', 'A', 100

UNION ALL

SELECT

'F1', 'B', 100

UNION ALL

SELECT

'F2', 'A', 202

UNION ALL

SELECT

'F2', 'C', 219

UNION ALL

SELECT

'F3', 'A', 150

UNION ALL

SELECT

'F2', 'C', 300

UNION ALL

SELECT

'F3', 'D', 120

UNION ALL

SELECT

'F1', 'A', 200

INSERT INTO #tblResource2

SELECT

'F1',512

UNION ALL

SELECT

'F2',411

UNION ALL

SELECT

'F3',691

SELECT \* FROM #tblResource1 ORDER BY Class,Code

SELECT \* FROM #tblResource2 ORDER BY Class

--;WITH #tblClassCode AS

--(

-- SELECT Class,Code,SUM(Value) AS Value

-- FROM #tblResource1

-- GROUP BY Class,Code

--)

--SELECT

-- t2.Class

--,t2.Code

--,t2.Value

--,SUM(t2.Value) OVER(PARTITION BY t2.Class) AS \_Sum

--,t1.Value AS \_Distributed

--,ROUND(t2.Value/SUM(t2.Value) OVER(PARTITION BY t2.Class)\*t1.Value,2) AS Result

--FROM #tblClassCode t2 LEFT OUTER JOIN #tblResource2 t1 ON t1.Class=t2.Class

SELECT t2.Class,t2.Code,t2.Value

,SUM(t2.Value) OVER(PARTITION BY t2.Class) AS \_Sum

,t1.Value AS \_Distributed

,ROUND(t2.Value/SUM(t2.Value) OVER(PARTITION BY t2.Class)\*t1.Value,2) AS \_Result

FROM

( SELECT Class,Code,SUM(Value) AS Value

FROM #tblResource1

GROUP BY Class,Code) t2 LEFT OUTER JOIN #tblResource2 t1 ON t1.Class=t2.Class