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Assignment Document:

Grouping Sets

Version: < Sql Server 2005>/ASSIGNMENT/xxxx/x.x

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Topic: <GROUPING SETS>

Total Completion Time: 15 minutes

### Hands-On Exercises

Hands-On Exercise 1: < Example for Grouping >

Estimated Completion Time: 3 Minutes

Use AdventureWorks

Go

CREATE TABLE [dbo].[employee1](

[Employee\_Number] [int] NOT NULL PRIMARY KEY,

[Employee\_Name] [varchar](30) NULL,

[Salary] [float] NULL,

[Department\_Number] [int] NULL,

[Region] [varchar](30) NULL

) ON [PRIMARY]

---Now poplulate the table with some rows-----

insert into employee1 values(1,'Sreekar',9000,10,'Hyderabad')

insert into employee1 values(2,'Raghu',5000,10,'Bangalore')

insert into employee1 values(3,'Kishore',4000,20,'Hyderabad')

insert into employee1 values(4,'Murali',8000,10,'Chennai')

insert into employee1 values(5,'Rajesh',8000,20,'Chennai')

---After populating some rows, we select some rows using Grouping Sets

--with the following query---

SELECT Region, Department\_number, avg(salary) Average\_Salary

from Employee1

Group BY

GROUPING SETS

(

--(Region, Department\_number),

(Region),

(Department\_number) ,

()

)

order by Region,Department\_number,Average\_Salary

Hands-On Exercise 2: < Using union funtion in sql server 2005 >

Estimated Completion Time: 3 Minutes

SELECT Region, Department\_number, avg(salary) Average\_Salary

from Employee1

Group BY

(Region, Department\_number)

UNION

SELECT Region, Department\_number, avg(salary) Average\_Salary

from Employee1

Group BY

(Region)

UNION

SELECT Region, Department\_number, avg(salary) Average\_Salary

from Employee1

Group BY

(Department\_number)

UNION

SELECT NULL, NULL, avg(salary) Average\_Salary

from Employee1

Hands-On Exercise 3: <Replacement for ROLLUP>

Estimated Completion Time: 2 Minutes

-----ROLLUP REPLACEMENT-----

SELECT Region, Department\_Number, avg(salary) Average\_Salary

from Employee1

Group BY

ROLLUP (Region, Department\_Number)

-----The above query is equivalent to the following query----

SELECT Region, Department\_Number, avg(salary) Average\_Salary

from Employee1

GROUP BY

GROUPING SETS

(

(Region, Department\_Number),

(Region)

()

)

Hands-On Exercise 4: <Replacement for CUBE>

Estimated Completion Time: 2 Minutes

---CUBE REPLACEMENT-----

SELECT Region, Department\_Number, avg(salary) Average\_Salary

from Employee1

Group BY

CUBE (Region, Department\_Number)

-----The above query is equivalent to the following query----

SELECT Region, Department\_Number, avg(salary) Average\_Salary

from Employee1

GROUP BY

GROUPING SETS

(

(Region, Department\_Number),

(Region),

(Department\_Number) ,

()

)