Advanced Database Data Type



Name Dicha Zelianivan Arkana

> NIM 2241720002

> > Class 2i

Department

Information Technology

Study ProgramD4 Informatics Engineering

1 Practicum

```
1. SELECT
      GETDATE() AS currentdatetime,
      FORMAT(GETDATE(), 'HH:mm:ss') AS currentdate,
      YEAR(GETDATE()) AS currentyear,
      MONTH(GETDATE()) AS currentmonth,
      DAY(GETDATE()) AS currentday,
      DATEPART (WEEK, GETDATE()) AS currentweeknumber,
      DATENAME(MONTH, GETDATE()) AS currentmonthname;
2. Tidak, karena tidak diperbolehkan adanya duplikat dalam penamaan alias
3. SELECT CAST('1945-08-17' AS DATE) AS somedate;
  SELECT CONVERT(DATE, '1945-08-17', 23) AS somedate;
  SELECT DATEFROMPARTS(1945, 8, 17) AS somedate;
4. SELECT
      DATEADD (MONTH, 3, GETDATE()) AS threemonths,
      DATEDIFF(DAY, GETDATE(), DATEADD(MONTH, 3, GETDATE())) AS diffdays,
      DATEDIFF(WEEK, '1945-08-17', '2018-10-01') AS diffweeks,
      DATEADD(DAY, 1 - DAY(GETDATE()), GETDATE()) AS firstday;
5. SELECT isitdate,
      CASE
           WHEN ISDATE(isitdate) = 1 THEN CONVERT(date, isitdate)
           ELSE NULL
      END AS converteddate
  FROM Sales. Somedates;
6. SYSDATETIME mengembalikan nilai bertipe DATETIME2(7)
  sedangkan CURRENT_TIMESTAMP mengembalikan hasil bertipe DATETIME
7. SELECT DISTINCT custid
  FROM Sales.Orders
  WHERE YEAR(orderdate) = 2008 AND MONTH(orderdate) = 2;
8. SELECT
      GETDATE() AS currentdate,
      DATEADD(month, DATEDIFF(month, 0, GETDATE()), 0) AS firstofmonth,
      DATEADD(day, -1, DATEADD(month, DATEDIFF(month, 0, GETDATE()) + 1, 0)) AS endofmonth;
```

```
9. SELECT
       orderid,
       custid,
       orderdate
   FROM
       Sales.Orders
   WHERE
       orderdate >= DATEADD(day, -5, DATEADD(month, DATEDIFF(month, 0, GETDATE()), 0))
       AND orderdate < DATEADD(month, DATEDIFF(month, 0, GETDATE()) + 1, 0);
10. SELECT
       orderid,
       custid,
       orderdate
   FROM
       Sales.Orders
   WHERE
       DAY(orderdate) > DAY(EOMONTH(orderdate, 0)) - 5
11. SELECT DISTINCT
       od.productid
   FROM
       Sales.Orders o
   JOIN
       Sales.OrderDetails od ON o.orderid = od.orderid
   WHERE
       YEAR(orderdate) = 2007
       AND DATEPART(month, orderdate) <= 10
   ORDER BY od.productid;
12. SELECT
       CONCAT(contactname, ' (city: ', city, ')') AS contactwithcity
   FROM
       Sales.Customers;
```

```
13. SELECT
       CONCAT (
            contactname,
            ' (city: ',
            city,
            ', region: ',
           normalisedregion,
            ')'
       ) AS contactwithcity
   FROM
        (
            SELECT
                normalisedregion = CASE
                    WHEN region IS NULL THEN ''
                    ELSE region
                END,
                city,
                contactname
           FROM
                Sales.Customers
       ) AS c;
14. SELECT
       contactname,
       contacttitle
   FROM
       Sales.Customers
   WHERE
       ASCII(LEFT(contactname, 1)) >= 65
       AND ASCII(LEFT(contactname, 1)) <= 71
   ORDER BY
       contactname;
15. SELECT
       contactname,
       LEFT(contactname, CHARINDEX(', ', contactname) - 1) AS lastname
   FROM
       Sales.Customers;
16. SELECT
       REPLACE(contactname, ', ', ' ') as newcontactname,
       RIGHT(contactname, CHARINDEX(' ', REVERSE(contactname))) as firstname
   FROM
       Sales.Customers;
```