

APPENDIX

CODING

```
<?php
    include('koneksi.php');
    session_start();

    if(isset($_POST['username']))
        $_SESSION['minimSu'] = $_POST['username'];

    if(!isset($_SESSION['minimSu']))
        header("Location: isiDulu.php");

    $minimumSupport = $_SESSION['minimSu'];
?>

<html>
<head>
    <title>Data Rincian Transaksi</title>
</head>
<body>
    <h1>DATA TRANSAKSI</h1>
    <h2>Project Simulasi FP-Growth</h2>

    <table border="1">
        <tr>
            <th>No Record</th>
            <th>No Transaksi</th>
            <th>Kode Barang</th>
        </tr>

        <?php
            $sql = "SELECT * FROM tblRincian";
            $result = mysqli_query($db_link,$sql);
            $nomor=1;

            while($row=mysqli_fetch_array($result))
            {
                echo "<tr>";
                echo "<td>".$row['noRecord']."</td>";
                echo "<td>".$row['noTransaksi']."</td>";
                echo "<td>".$row['kodeBarang']."</td>";
                echo "</tr>";
                $nomor++;
            }

        ?>
    </table>
    <br>
    <form action="" method="POST">
        <input type="submit" name="submit" value="Proses FP-
Growth" class="tombol">
```

```

</form>

<?php
    if (isset($_POST['submit'])) //konek dgn nama input
'submit'
    {
        $waktuAwal = microtime(true);
        echo "Memory awal: ".memory_get_usage()." bytes \n";
    }
?>

```

1. Menghitung Jumlah Transaksi Tiap Data

```

<table border="1">
<tr>
<th>No</th>
<th>Kode Barang</th>
<th>Nama Barang</th>
<th>Jumlah Transaksi</th>
</tr>
<?php
    $sql = "SELECT    tblBarang.kodeBarang AS 1a,
                    tblBarang.namaBarang AS 1b,
                    Count(tblRincian.kodeBarang) AS 1c
            FROM      tblBarang INNER JOIN tblRincian USING
(kodeBarang)
                    GROUP BY tblBarang.kodeBarang;";

    $result = mysqli_query($db_link,$sql);
    $nomor=1;
    while($row=mysqli_fetch_array($result))
    {
        echo "<tr>";
        echo "<td>".$nomor++."</td>";
        echo "<td>".$row['1a']."</td>";
        echo "<td>".$row['1b']."</td>";
        echo "<td>".$row['1c']."</td>";
        echo "</tr>";
    }
?>
</table>

```

```

<h5>_ _ _ _ _ Minimum Support : <?php echo
$minimumSupport ?> dan Sudah diurutkan dari besar ke kecil _ _ _
_ _ _ _ _</h5>

```

```

<table border="1">
<tr>
<th>No</th>
<th>Kode Barang</th>
<th>Nama Barang</th>
<th>Jumlah Transaksi</th>
</tr>

```

```

<?php
    $sql = "SELECT  tblBarang.kodeBarang AS 1x,
                  tblBarang.namaBarang AS 1y,
                  Count(tblRincian.kodeBarang) AS 1z
            FROM    tblBarang INNER JOIN tblRincian USING
(kodeBarang)

            GROUP BY tblBarang.kodeBarang
            HAVING 1z >= ".$minimumSupport."

            ORDER BY 1z DESC;";

$result = mysqli_query($db_link,$sql);
$nomor=1;

while($row=mysqli_fetch_array($result))
{
    echo "<tr>";
    echo "<td>".$nomor++."</td>";
    echo "<td>".$row['1x']."</td>";
    echo "<td>".$row['1y']."</td>";
    echo "<td>".$row['1z']."</td>";
    echo "</tr>";
}
?>
</table>

<br><br>
<h3>2. Melihat Rincian Transaksi dengan Jumlah Pembelian Tiap
barang</h3>

<table border="1">
<tr>
<th>No</th>
<th>Kode Transaksi</th>
<th>Kode Barang</th>
<th>Jumlah Dibeli</th>
</tr>

<?php
    $sql = "SELECT  tblRincian.noTransaksi AS 2a,
                  tblBarang.kodeBarang AS 2b,
                  (SELECT Count(ANCOR.kodeBarang)
                   FROM tblRincian AS ANCOR
                   WHERE          ANCOR.kodeBarang
tblBarang.kodeBarang) AS 2c

            FROM    tblRincian INNER JOIN tblBarang USING
(kodeBarang)

            ORDER  BY  tblRincian.noTransaksi  ASC,  2c
DESC;";

$result = mysqli_query($db_link,$sql);
$nomor=1;
while($row=mysqli_fetch_array($result))

```

```

        {
            echo "<tr>";
            echo "<td>".$nomor++."</td>";
            echo "<td>".$row['2a']."</td>";
            echo "<td>".$row['2b']."</td>";
            echo "<td>".$row['2c']."</td>";
            echo "</tr>";
        }
    ?>
</table>
<h5>_ _ _ _ _ Minimum Support : <?php echo
$minimumSupport ?> _ _ _ _ _</h5>
<table border="1">
<tr>
<th>No</th>
<th>Kode Transaksi</th>
<th>Kode Barang</th>
<th>Jumlah Dibeli</th>
</tr>
<?php
$sql = "SELECT tblRincian.noTransaksi AS noTransaksi,
tblBarang.kodeBarang AS kodeBarang,
(SELECT Count(ANCOR.kodeBarang)
FROM tblRincian AS ANCOR
WHERE ANCOR.kodeBarang =
tblBarang.kodeBarang) AS jumlahBarang
FROM tblRincian INNER JOIN tblBarang USING
(kodeBarang)
WHERE (SELECT Count(ANCOR.kodeBarang)
FROM tblRincian AS ANCOR
WHERE ANCOR.kodeBarang =
tblBarang.kodeBarang) >=".$minimumSupport."
ORDER BY tblRincian.noTransaksi ASC,
jumlahBarang DESC;";

$result = mysqli_query($db_link,$sql);
$nomor=1;

while($row=mysqli_fetch_array($result))
{
    echo "<tr>";
    echo "<td>".$nomor++."</td>";
    echo "<td>".$row['noTransaksi']."</td>";
    echo "<td>".$row['kodeBarang']."</td>";
    echo "<td>".$row['jumlahBarang']."</td>";
    echo "</tr>";
}

//Membuat View by Pak Yanto
$dataFix = "CREATE VIEW data_fix AS ".$sql;
$result = mysqli_query($db_link,$dataFix);

```

```
?>
</table>
```

<h3>3. Memproses data Transaksi diatas untuk menjadi Contidional Pattern Base</h3>

<H5>a. Memasukkan data Transaksksi kedalam Array</H5>

```
<?php
    $sql = "SELECT * FROM data_fix;";

    $result = mysqli_query($db_link,$sql);
    $nomor=1;

    //ArrayB
    $wadahString = array();
    $i=0;

    while($row=mysqli_fetch_array($result))
    {
        $wadahString[0]=''; //wadah untuk String Transaksi
//biar gak offset --blm keisi
        //$wadahKodeBarang[0]='';

        if($i==$row['noTransaksi']) //masukkan kode ke
string
        {
            $wadahString[$i] .= ',';
            $wadahString[$i] .= $row['kodeBarang'];
        }
        else
        {
            $i++;
            $wadahString[$i] = $row['kodeBarang'];
        }
    }
    print_r($wadahString); //-->cetakArray
    $_SESSION['listString'] = $wadahString;
    echo "<br>";
?>
```


<H5>b. Kode Barang diurutkan dari frekuensi Kecil menuju Besar</H5>

```
<table border="1">
<tr>
<th>No</th>
<th>Kode Barang</th>
<th>Nama Barang</th>
<th>Jumlah Transaksi</th>
</tr>
```

```
<?php
    $sql = "SELECT tblBarang.kodeBarang AS kBarang,
tblBarang.namaBarang AS nBarang,
```

```

jBarang                                     Count(tblRincian.kodeBarang)           AS
(kodeBarang)                               FROM      tblBarang INNER JOIN tblRincian USING
                                             GROUP BY tblBarang.kodeBarang
                                             HAVING jBarang >= ".$minimumSupport."
                                             ORDER BY jBarang ASC;";

$result = mysqli_query($db_link,$sql);
$nomor=1;

$wadahKodeBarang = array(); //ambilKodeBarang
$i=0;

while($row=mysqli_fetch_array($result))
{
    echo "<tr>";
    echo "<td>".$nomor++."</td>";
    echo "<td>".$row['kBarang']."</td>";
    echo "<td>".$row['nBarang']."</td>";
    echo "<td>".$row['jBarang']."</td>";
    echo "</tr>";

    $wadahKodeBarang[$i] = $row['kBarang'];
    $i++;
}
//print_r($wadahKodeBarang); -->cetakArray
$_SESSION['listKodeBarang'] = $wadahKodeBarang;
echo "<br>";
?>
</table>

<br>
<h5>c. Kode Barang yg Sudah Urut dimasukkan kedalam
Array</h5>
<br>

<?php
echo "Print Array kodeBarang :";
echo "<br>";
// loop through the session array with foreach
foreach($_SESSION['listKodeBarang'] as $nomere=>$value)
{
    // and print out the values
    echo 'The value of $_SESSION['."". $nomere. "".' is
'.'. $value. "".' <br />';
}
?>
<br>
<br>
<h5>d.Membuat Temporary tabel untuk menjadikan Conditional
Pattern Base</h5>
<br>
<?php

```

```

//pindah variabel biar isa diubah"
$wKB      = $_SESSION['listKodeBarang'];
$lString  = $_SESSION['listString'];
//install temporary table
$tabel = "CREATE TEMPORARY TABLE conditionalPattern(
          kodeBarang VARCHAR(25),
          listTransaksi VARCHAR(255));";
$temporary = mysqli_query($db_link,$tabel);

//loop
foreach ($wKB as $noKB => $valueKodeBarang)
{
    $c=0;
    foreach ($lString as $iii => $valueListString)
    {
        $checker = strpos($valueListString, $wKB[$noKB]);
        if($checker !== FALSE)
        {
            /*echo "Transaksi no.".$iii." ada kode barang
            ".$wKB[$noKB]." ";
            echo "<br>";
            $c++;
            /* //--dipotong Stringnya
            $lString[$iii]=str_replace($wKB[$noKB],',',
            $lString[$iii]);
            $lString[$iii]=trim($lString[$iii],',');
            $lString[$iii]=str_replace(',',' ',' ');
            //dimasukkan Table temporer
            if($lString[$iii] != NULL)
            {
                $sql = "INSERT INTO conditionalPattern
                VALUES
                ('".$wKB[$noKB]."', '".
                $lString[$iii]."'");";
                $hasil = mysqli_query($db_link,$sql);
            }
        }
    }
}
?>

```

```

<table border="1">
  <tr>
    <!--th> No </th-->
    <th> Suffix </th>
    <th> Conditional Pattern Base </th>
    <th> Jumlah </th>
  </tr>
<?php
  $sqlcpb = "SELECT kodeBarang,
              listTransaksi,
              count(listTransaksi) AS jumlah
              FROM conditionalPattern

```

```

        GROUP BY kodeBarang,listTransaksi
        ORDER BY jumlah ASC,kodeBarang DESC;";
$hasilcpb = mysqli_query($db_link,$sqlcpb);
while($row=mysqli_fetch_array($hasilcpb))
{
    echo "<tr>";
    echo "<td>".$row['kodeBarang']. "</td>";
    echo "<td>".$row['listTransaksi']. "</td>";
    echo "<td>".$row['jumlah']. "</td>";
    echo "</tr>";
}
//print_r($wKB);

foreach ($wKB as $noKB => $valueKodeBarang)
{
    foreach ($wKB as $noKB2 => $valueKodeBarang2)
    {
        $tabel2 = "CREATE TEMPORARY TABLE conditionalFptree (
            kodeBarang VARCHAR(25),
            itemTransaksi VARCHAR(255));";

        $temporary = mysqli_query($db_link,$tabel2);

        //proses
        $sqlcpb = "SELECT kodeBarang,
            listTransaksi
            FROM conditionalPattern
            WHERE kodeBarang='".$valueKodeBarang.'"
            ORDER BY kodeBarang DESC;";
        $hasilcpb = mysqli_query($db_link,$sqlcpb);

        if($hasilcpb!=NULL)
        {
            while($row=mysqli_fetch_array($hasilcpb))
            {
                $kodeBarang=$row['kodeBarang'];
                $checkerFptree = strpos($row['listTransaksi'],
$valueKodeBarang2);
                //echo "string";
                if($checkerFptree !== FALSE)
                {
                    //echo "string";
                    $sql = "INSERT INTO conditionalFptree VALUES
                        ('.$kodeBarang.', '$valueKodeBarang2.'));";
                    $hasil = mysqli_query($db_link,$sql);
                    //echo "Sukses woi<br>";
                }
            }
        }
    }
}
}
}

```



```

$minSup=2;
$sqlFptree = "SELECT kodeBarang,
                itemTransaksi,
                count(itemTransaksi) AS jumlah
FROM      conditionalFptree
GROUP BY itemTransaksi,kodeBarang
HAVING jumlah >=".$minimumSupport."
ORDER BY jumlah ASC,kodeBarang DESC;";

$hasilFptree = mysqli_query($db_link,$sqlFptree);

//TABEL-FREQUENT.ITEM
$tabel3 = "CREATE TEMPORARY TABLE frequentItemSet(
                kodeBarang    VARCHAR(25),
                frequentItem  VARCHAR(255),
                jumlahItem    INT);";
$sql = mysqli_query($db_link,$tabel3);
?>
</table>
<h3>4. CONDITIONAL FP-TREE </h3><br>
<table border="1">
<tr>
<!--th> No </th-->
<th> Suffix </th>
<th> Conditional FP-Tree </th>
<th> Jumlah </th>
</tr>
<?php
while($row=mysqli_fetch_array($hasilFptree))
{
    echo "<tr>";
    echo "<td>".$row['kodeBarang']. "</td>";
    echo "<td>".$row['itemTransaksi']. "</td>";
    echo "<td>".$row['jumlah']. "</td>";
    echo "</tr>";

    //itungan Frequent Item
    $itemSet = $row['kodeBarang'].",".$row['itemTransaksi'];
    $tabel3 = "INSERT INTO frequentItemSet VALUES
                ('".$row['kodeBarang'].','.$row['itemTransaksi'].','.$row['jumlah'].")";
    //echo $tabel3;
    $hasil = mysqli_query($db_link,$tabel3);

}
?>
</table>
<h3>5. FREQUENT ITEM SET</h3><br>
<table border="1">

```

```

<tr>
  <!--th> No </th-->
  <th> Suffix </th>
  <th> Frequent Item Set </th>
  <th> Jumlah </th>
</tr>

<?php
  $tabel3 = "SELECT * FROM frequentItemSet;";

  $itabel3 = mysqli_query($db_link,$tabel3);

  //ArrayB
  $arrayKodeBarang = array();
  $arrayFrequentItem = array();
  $arrayJumlahItem = array();
  $i=0;

  while($row=mysqli_fetch_array($itabel3))
  {
    echo "<tr>";
    //echo "<td>".$nomor++."</td>";
    echo "<td>".$row['kodeBarang']."</td>";
    echo "<td>".$row['frequentItem']."</td>";
    echo "<td>".$row['jumlahItem']."</td>";
    echo "</tr>";

    $arrayKodeBarang[$i] = $row['kodeBarang'];
    $arrayFrequentItem[$i] = $row['frequentItem'];
    $arrayJumlahItem[$i] = $row['jumlahItem'];
    $i++;
  }
?>
</table>
<br>
<h3>Jadi Frequent Pattern 2 Set adalah : </h3>
<?php
  foreach ($arrayFrequentItem as $key => $value)
  {
    echo $arrayFrequentItem[$key]." sebanyak ".
    $arrayJumlahItem[$key]." Transaksi <br>" ;
  }
  //print_r($arrayFrequentItem);
?>
<h3>Jadi Frequent Pattern 3 Set adalah : </h3>
<?php
  //$tabel3 = "SELECT * FROM frequentItemSet;";
  //$itabel3 = mysqli_query($db_link,$tabel3);
  $i=0;
  $j=0;
  $wadahf3S='';

```

```

foreach ($arrayFrequentItem as $key => $value)
{
    $tabel3 = "SELECT * FROM frequentItemSet;";
    $itabel3 = mysqli_query($db_link,$tabel3);
    while($row=mysqli_fetch_array($itabel3))
    {
        if($arrayKodeBarang[$i]==$row['kodeBarang'] &&
$arrayJumlahItem[$i]== $row['jumlahItem'])
        {
            if($value != $row['frequentItem'])
            {
                $fp3set = $value.", ".$row['frequentItem'];
                $fp3set = ltrim($fp3set,
$row['kodeBarang']);
                $fp3set = trim($fp3set,',' );
                $cmp3set=strcmp($fp3set,$wadahf3S);
                if($cmp3set==1) //gatau pokoke beda 1 wae
                {
                    echo $fp3set."          sebanyak          ".
$row['jumlahItem']." Transaksi <br>";
                }
                $wadahf3S=$fp3set;
            }
        }
        $i++;
    }
}
?>

<h3>---End of Project---</h3>

<?php
    $waktuAkhir = microtime(true);
    $waktuProses = $waktuAkhir - $waktuAwal;
    echo "<p>Lama eksekusi script adalah: ".$waktuProses."
detik</p>";
    echo "Memory akhir: ".memory_get_usage()." bytes \n";
}

?>

</body>
</html>

```

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