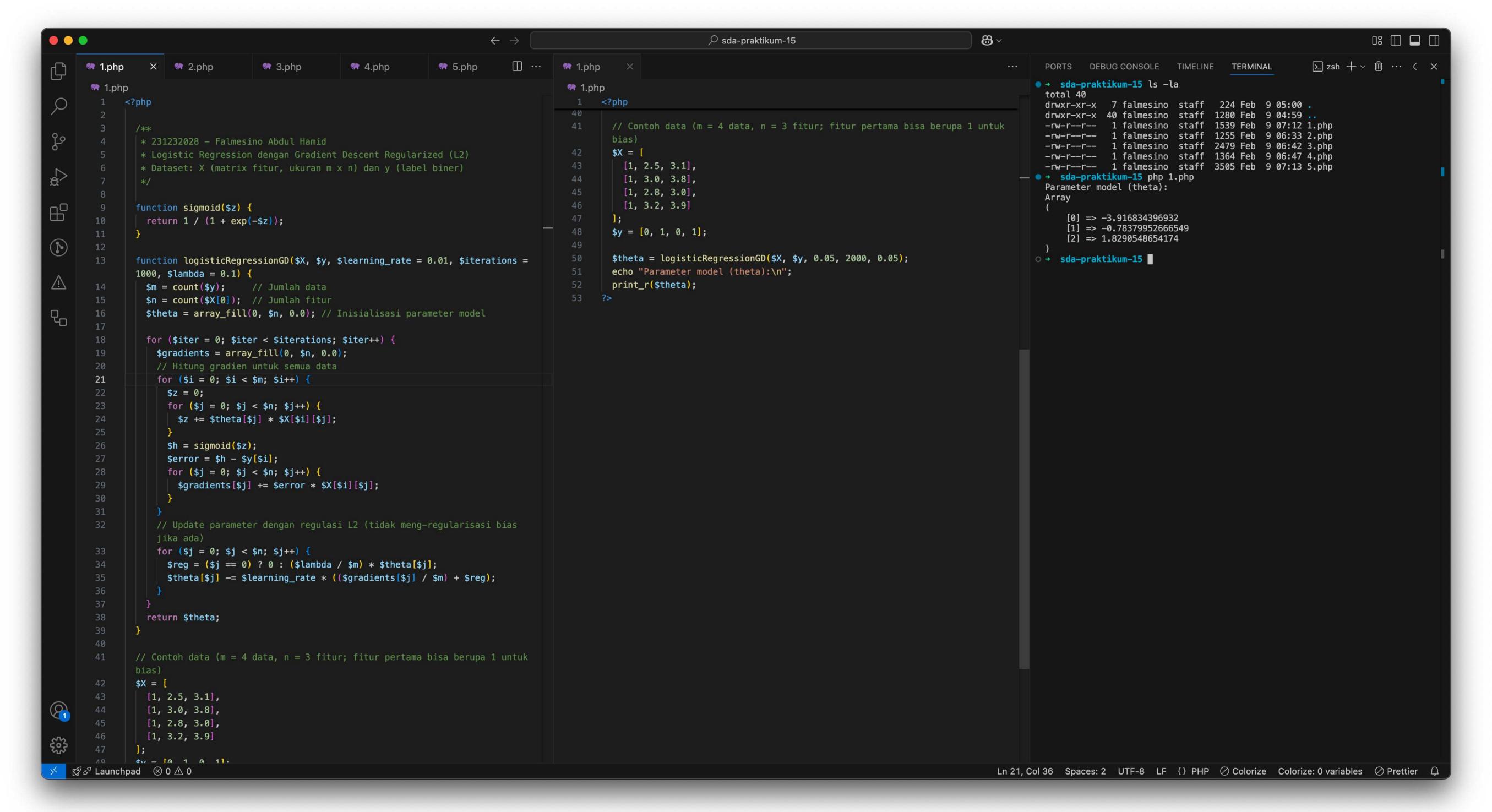
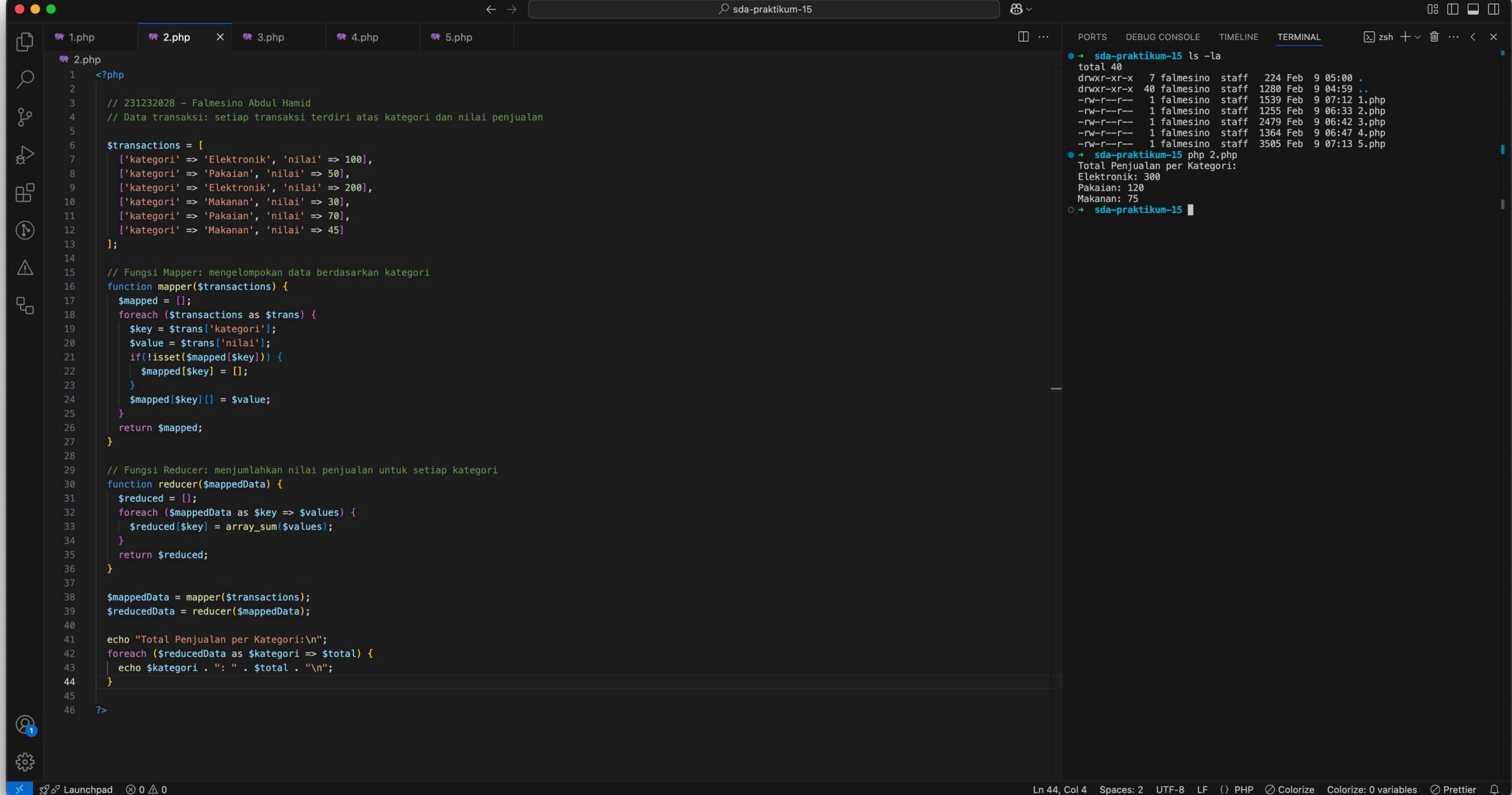
NIM: 231232028

Nama: Falmesino Abdul Hamid

Tugas Pertemuan 15 Struktur Data dan Algoritma (SDA)

URL Source Code: https://github.com/falmesino/sda-praktikum-15





83 ~ \leftarrow \rightarrow <u>∑</u> zsh + ∨ 🛍 ··· 〈 × **1.**php **??** 2.php **₹ 3.php** × **₹ 4.php %** 5.php PORTS DEBUG CONSOLE TIMELINE TERMINAL ● → sda-praktikum-15 ls -la **3.php 9.** 3.php total 40 1 <?php 1 <?php drwxr-xr-x 7 falmesino staff 224 Feb 9 05:00 function apriorilitemset(\$transactions, \$minSupport) { drwxr-xr-x 40 falmesino staff 1280 Feb 9 04:59 -rw-r--r 1 falmesino staff 1539 Feb 9 07:12 1.php // 231232028 - Falmesino Abdul Hamid foreach (\$itemCounts as \$item => \$count) { -rw-r--r-- 1 falmesino staff 1255 Feb 9 06:33 2.php // Data transaksi: setiap transaksi adalah array item -rw-r--r-- 1 falmesino staff 2479 Feb 9 06:42 3.php return \$frequent1; -rw-r--r-- 1 falmesino staff 1364 Feb 9 06:47 4.php -rw-r--r-- 1 falmesino staff 3505 Feb 9 07:13 5.php \$transactions = [● → sda-praktikum-15 php 3.php ['susu', 'roti', 'keju'], Frequent 1-itemsets: ['roti', 'keju'], // Membentuk kandidat 2-itemset dari frequent 1-itemset Array ['susu', 'roti'], function generateCandidates(\$frequent1) { $[susu] \Rightarrow 0.6$ ['roti', 'keju'], \$items = []; [roti] => 0.8 ['susu', 'keju'] foreach (\$frequent1 as \$itemset => \$support) { [keju] => 0.8 12 \$items[] = \$itemset; // itemset di sini hanya 1 item \$minSupport = 0.6; // threshold support minimal Frequent 2-itemsets: \$totalTransactions = count(\$transactions); \$candidates = []; Array \$n = count(\$items); // Fungsi menghitung support suatu itemset for $(\$i = 0; \$i < \$n; \$i++) {$ [keju,roti] => 0.6 function countSupport(\$transactions, \$itemset) { for $(\$j = \$i + 1; \$j < \$n; \$j++) {$ count = 0;\$candidate = explode(',', \$items[\$i]); foreach(\$transactions as \$trans) { \$candidate2 = explode(',', \$items[\$j]); 20 if (count(array_intersect(\$trans, \$itemset)) == count(\$itemset)) { \$merged = array_merge(\$candidate, \$candidate2); 21 \$count++; sort(\$merged); 22 \$candidates[] = \$merged; 23 return \$count / count(\$transactions); 25 return \$candidates; // Mendapatkan frequent 1-itemset function apriorilitemset(\$transactions, \$minSupport) { // Evaluasi frequent 2-itemset \$itemCounts = []; 29 function apriori2itemset(\$transactions, \$candidates, \$minSupport) { 30 foreach (\$transactions as \$trans) { \$frequent2 = []; foreach (\$trans as \$item) { foreach (\$candidates as \$candidate) { if (!isset(\$itemCounts[\$item])) { \$support = countSupport(\$transactions, \$candidate); 33 \$itemCounts[\$item] = 0; if (\$support >= \$minSupport) { \$frequent2[implode(',', \$candidate)] = \$support; 34 \$itemCounts[\$item]++; 36 return \$frequent2; 38 \$frequent1 = []; 39 foreach (\$itemCounts as \$item => \$count) { 40 \$support = \$count / count(\$transactions); \$frequent1 = apriorilitemset(\$transactions, \$minSupport); if (\$support >= \$minSupport) { \$candidates2 = generateCandidates(\$frequent1); \$frequent1[implode(',', [\$item])] = \$support; \$frequent2 = apriori2itemset(\$transactions, \$candidates2, \$minSupport); 44 echo "Frequent 1-itemsets:\n"; return \$frequent1; print_r(\$frequent1); 46 echo "\nFrequent 2-itemsets:\n"; print_r(\$frequent2); // Membentuk kandidat 2-itemset dari frequent 1-itemset function generateCandidates(\$frequent1) { \$items = []; foreach (efrequent) as ditement -> dounnant) \$ Ø S Launchpad ⊗ 0 A 0 Ln 21, Col 18 Spaces: 2 UTF-8 LF {} PHP ⊘ Colorize Colorize: 0 variables ⊘ Prettier ♀

