**“Nawy Assessment”**

**Question 1:**

SELECT c.name AS college\_name,

MIN(r.ranking) AS best\_rank\_2015,

COUNT(\*) AS num\_students\_ranked\_1\_to\_3\_2015

FROM colleges c

INNER JOIN students s ON s.collegeId = c.id

INNER JOIN rankings r ON r.studentId = s.id

WHERE r.year = 2015 AND r.ranking BETWEEN 1 AND 3

GROUP BY c.name;

**Question 2:**

function transformDateFormat(dates) {

const formattedDates = [];

for (const dateString of dates) {

const parts = dateString.split(/[/-]/);

if (parts.length !== 3) {

continue;

}

let year, month, day;

if (parts[0].length === 4) {

year = parts[0];

month = parts[1].padStart(2, '0');

day = parts[2].padStart(2, '0');

} else if (parts[2].length === 4) {

year = parts[2];

month = parts[0].padStart(2, '0');

day = parts[1].padStart(2, '0');

} else {

month = parts[0].padStart(2, '0');

day = parts[1].padStart(2, '0');

year = parts[2];

}

formattedDates.push(year + month + day);

}

return formattedDates;

}

**Question 3:**

function isValid(s) {

const stack = [];

for (const char of s) {

switch (char) {

case '(':

case '{':

case '[':

stack.push(char);

break;

case ')':

if (stack.pop() !== '(') return false;

break;

case '}':

if (stack.pop() !== '{') return false;

break;

case ']':

if (stack.pop() !== '[') return false;

break;

}

}

return stack.length === 0;

}

console.log(isValid("()"));

console.log(isValid("()[]{}"));

console.log(isValid("(]"));

console.log(isValid("([)]"));

console.log(isValid("{[]}"));