

View A

V1		V2	
1	public static void main(String[] args){	1	public static void main(String[] args){
2		2	
3	SQLExpr expr = parseSQL(query)	3	SQLExpr expr = parseSQL(query)
4	String result = expr.getSQLKeyword();	4	String result = expr.getSQLKeyword();
5		5	
6	✅ assertEquals(result, expected);	6	❌ assertEquals(result, expected);
7	}	7	}
8	public SQLExpr parseSQL(String query){	8	public SQLExpr parseSQL(String query){
9		9	
10		10	
11		11	
12	if (keyword.equals("select")) [true]	12	
13	keyword = keyword.toUpperCase();	13	
14	expr = expr.append(keyword);	14	expr = expr.append(keyword);
15		15	
16	expr = expr.append(function);	16	expr = expr.append(function);
17		17	
18	expr = expr.append(table);	18	expr = expr.append(table);
19		19	
20	expr = expr.append(predicate);	20	expr = expr.append(predicate);
21	return expr;	21	return expr;
22	}	22	}

View B

V1		V2	
1	public static void main(String[] args){	1	public static void main(String[] args){
2	String query = "select sum(c1) from sales where c2>1";	2	String query = "select sum(c1) from sales where c2>1";
3	SQLExpr expr = parseSQL(query);	3	SQLExpr expr = parseSQL(query)
4	String result = expr.getSQLKeyword();	4	String result = expr.getSQLKeyword();
5	String expected = "SELECT";	5	String expected = "SELECT";
6	✅ assertEquals(result, expected);	6	❌ assertEquals(result, expected);
7	}	7	}
8	public SQLExpr parseSQL(String query){	8	public SQLExpr parseSQL(String query){
9		9	
10		10	
11	String keyword = Func1(query);	11	String keyword = Func1(query);
12	if (keyword.equals("select")) [true]	12	
13	keyword = keyword.toUpperCase();	13	
14		14	
15		15	
16		16	
17		17	
18		18	
19		19	
20	expr = Func2(keyword, query);	20	expr = Func2(keyword, query);
21	return expr;	21	return expr;
22	}	22	}

View C

V1		V2	
1	public static void main(String[] args){	1	public static void main(String[] args){
2		2	
3	SQLExpr expr = parseSQL(query)	3	SQLExpr expr = parseSQL(query)
4	String result = expr.getSQLKeyword();	4	String result = expr.getSQLKeyword();
5		5	
6	✅ assertEquals(result, expected);	6	❌ assertEquals(result, expected);
7	}	7	}
8	public SQLExpr parseSQL(String query){	8	public SQLExpr parseSQL(String query){
9		9	
10		10	
11		11	
12	if (keyword.equals("select")) [true]	12	
13	keyword = keyword.toUpperCase();	13	
14		14	
15		15	
16		16	
17		17	
18		18	
19		19	
20	expr = Func2(keyword, query);	20	expr = Func2(keyword, query);
21	return expr;	21	return expr;
22	}	22	}

Notations: Lines that correspond to each other in V1 and V2 are given the same line numbers. Numbered empty lines indicate statements that are either excluded in a particular view or are absent in a code version. Specifically, if a line is annotated by "delete", the statement is deleted in a version. Otherwise, it is excluded from the view. Changes between versions ("Add", "Update", "Delete") are shown on arrows between code snippets. For simplicity, each "if" statement (e.g., in line 12) is annotated with a label showing whether the "if" condition is evaluated to *true* or *false*. Colored backgrounds highlight the differences between the views.