```
-- Create the table for correlation and Cohen's d results
CREATE TABLE correlation_and_cohensd_results (
  group name VARCHAR,
  rule_column VARCHAR,
  posttest column VARCHAR,
  correlation coefficient NUMERIC,
  cohens_d NUMERIC
-- Define the columns and iterate through them
DO $$
DECLARE
  rule column TEXT;
  posttest_column TEXT;
  group_name TEXT;
  correlation NUMERIC;
  mean_rule NUMERIC;
  mean_posttest NUMERIC;
  stddev_rule NUMERIC;
  stddev posttest NUMERIC;
  n rule INT;
  n posttest INT;
  pooled_stddev NUMERIC;
  cohens_d NUMERIC;
BEGIN
  -- Iterate over the groups
  FOR group_name IN
    SELECT unnest(ARRAY['Control', 'Decision Table and Inductive Rules', 'Inductive Rules'])
  LOOP
    -- Define rule-related columns
    FOR rule_column IN
      SELECT unnest(ARRAY[
```

```
'Rule Current: Confirming Redundancy',
     'Rule Voltage Drop: Confirming Redundancy',
     'Rule Current: Simultaneous scanning',
     'Rule Voltage Drop: Simultaneous scanning',
     'Rule Current: Successive scanning',
     'Rule Voltage Drop: Successive scanning',
     'Rule Current: Focus gambling',
     'Rule Voltage Drop: Focus gambling',
     'Rule Current: Conservative Focusing',
     'Rule Voltage Drop: Conservative Focusing'
  ])
LOOP
  -- Define post-test-related columns
  FOR posttest_column IN
     SELECT unnest(ARRAY[
       'Post-test: Current non-normative',
       'Post-test: Voltage Drop non-normative',
       'Post-test: Current partial',
       'Post-test: Voltage Drop partial',
       'Post-test: Current 1 Valid link',
       'Post-test: Voltage Drop 1 Valid link',
       'Post-test: Current 2 Valid links',
       'Post-test: Voltage Drop 2 Valid links'
     ])
  LOOP
     -- Calculate the correlation coefficient
     EXECUTE format(
       'SELECT CORR(%I, %I) FROM search_strategies WHERE "Group" = %L',
       rule_column, posttest_column, group_name
     ) INTO correlation;
     -- Calculate means and standard deviations for Cohen's d
```

```
EXECUTE format(
           'SELECT AVG(%I), STDDEV(%I), COUNT(*) FROM search_strategies WHERE "Group" = %L',
           rule column, rule column, group name
         ) INTO mean_rule, stddev_rule, n_rule;
         EXECUTE format(
           'SELECT AVG(%I), STDDEV(%I), COUNT(*) FROM search_strategies WHERE "Group" = %L',
           posttest column, posttest column, group name
         ) INTO mean_posttest, stddev_posttest, n_posttest;
         -- Calculate pooled standard deviation
         pooled_stddev := sqrt(((n_rule - 1) * stddev_rule^2 + (n_posttest - 1) * stddev_posttest^2) / (n_rule + n_posttest - 2));
         -- Calculate Cohen's d
         cohens d := (mean rule - mean posttest) / pooled stddev;
         -- Insert the result into the table
         INSERT INTO correlation_and_cohensd_results (group_name, rule_column, posttest_column, correlation_coefficient,
cohens_d)
         VALUES (group name, rule column, posttest column, correlation, cohens d);
       END LOOP;
    END LOOP;
  END LOOP:
END $$;
SELECT * FROM correlation_and_cohensd_results
```