Single table

Query

```
SELECT anon_1.type,
       anon_1.description,
       anon_1.input_of_id,
       anon_1.output_of_id,
       anon_1.id,
       anon_1.string_value,
       anon_1.string_regex,
       anon_1.json_value,
       anon_1.json_schema,
       anon_1.json_initial_value,
       anon_1.json_formly_schema,
       anon_1.boolean_value,
       anon_1.hash_value,
       anon_1.domain_value,
       anon_1.url_value,
       anon_1.ip_value,
       anon_1.date_value,
       anon_1.datetime_value,
       anon_1.email_address_value,
       anon_1.email_message_value,
       anon_1.file_ref_value,
       anon_1.file_value,
       __parent_id,
       __row_number
FROM (SELECT task_input_output_1.type                                                                    AS type,
             task_input_output_1.description                                                             AS description,
             task_input_output_1.input_of_id                                                             AS input_of_id,
             task_input_output_1.output_of_id                                                            AS output_of_id,
             task_input_output_1.id                                                                      AS id,
             task_input_output_1.string_value                                                            AS string_value,
             task_input_output_1.string_regex                                                            AS string_regex,
             task_input_output_1.json_value                                                              AS json_value,
             task_input_output_1.json_schema                                                             AS json_schema,
             task_input_output_1.json_initial_value                                                      AS json_initial_value,
             task_input_output_1.json_formly_schema                                                      AS json_formly_schema,
             task_input_output_1.boolean_value                                                           AS boolean_value,
             task_input_output_1.hash_value                                                              AS hash_value,
             task_input_output_1.domain_value                                                            AS domain_value,
             task_input_output_1.url_value                                                               AS url_value,
             task_input_output_1.ip_value                                                                AS ip_value,
             task_input_output_1.date_value                                                              AS date_value,
             task_input_output_1.datetime_value                                                          AS datetime_value,
             task_input_output_1.email_address_value                                                     AS email_address_value,
             task_input_output_1.email_message_value                                                     AS email_message_value,
             task_input_output_1.file_ref_value                                                          AS file_ref_value,
             task_input_output_1.file_value                                                              AS file_value,
             anon_2.task_id                                                                              AS __parent_id,
             row_number() OVER (PARTITION BY anon_2.task_id ORDER BY task_input_output_1.id DESC) AS __row_number
      FROM task_input_output AS task_input_output_1
               JOIN (SELECT task.weight            AS task_weight,
                            task.name              AS task_name,
                            task.description       AS task_description,
                            task.created           AS task_created,
                            task.last_updated      AS task_last_updated,
                            task.due_date          AS task_due_date,
                            task.state             AS task_state,
                            task.stage_id          AS task_stage_id,
                            task.is_automated      AS task_is_automated,
                            task.type              AS task_type_1,
                            task.task_type         AS task_task_type,
                            task.processing_queue  AS task_processing_queue,
                            task.created_by_id     AS task_created_by_id,
                            task.id                AS task_id,
                            generic_task.id        AS generic_task_id,
                            decision_task.decision AS decision_task_decision,
                            decision_task.id       AS decision_task_id
                     FROM task
                              LEFT OUTER JOIN generic_task ON generic_task.id = task.id
                              LEFT OUTER JOIN decision_task ON decision_task.id = task.id) AS anon_2
                    ON anon_2.task_id = task_input_output_1.input_of_id
      WHERE anon_2.task_id IN (8)) AS anon_1
WHERE __row_number <= 1
```

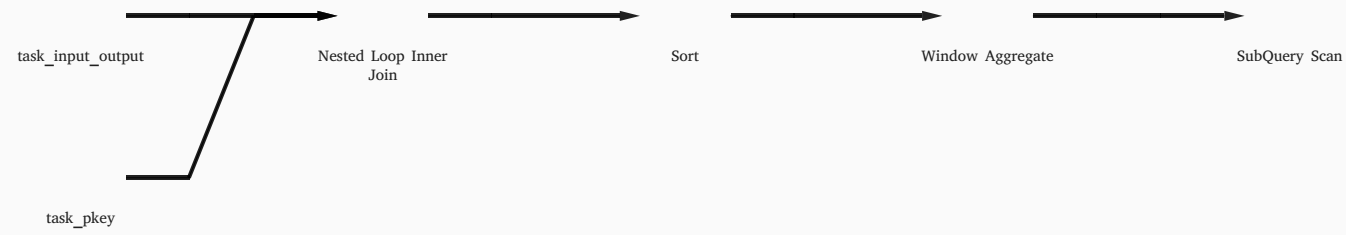
Execution times

Try	Time (ms)
1	121
3	185
4	73

5	121
6	87
7	70
8	109
9	115
10	70

Average execution time

95.1 ms



#	Node	Rows Actual	Loops
1.	→ Subquery Scan (rows=1 loops=1) **Filter**: (anon_1.__row_number <= 1) **Rows Removed by Filter**: 0	1	1
2.	→ Window Aggregate (rows=1 loops=1)	1	1
3.	→ Sort (rows=1 loops=1)	1	1
4.	→ Nested Loop Inner Join (rows=1 loops=1)	1	1
5.	→ Seq Scan on task_input_output as task_input_output_1 (rows=... **Filter**: (input_of_id = 8) **Rows Removed by Filter**: 70	1	1
6.	→ Index Only Scan using task_pkey on task as task (rows=1 loops... **Index Cond**: (id = 8)	1	1

Joined table

Query

```
SELECT anon_1.type,
       anon_1.description,
       anon_1.input_of_id,
       anon_1.output_of_id,
       anon_1.id,
       anon_1.id_1,
       anon_1.string_value,
       anon_1.string_regex,
       anon_1.id_2,
       anon_1.json_value,
       anon_1.json_schema,
       anon_1.json_initial_value,
       anon_1.json_formly_schema,
       anon_1.id_3,
       anon_1.boolean_value,
       anon_1.id_4,
       anon_1.hash_value,
       anon_1.id_5,
       anon_1.domain_value,
       anon_1.id_6,
       anon_1.url_value,
       anon_1.id_7,
       anon_1.ip_value,
```

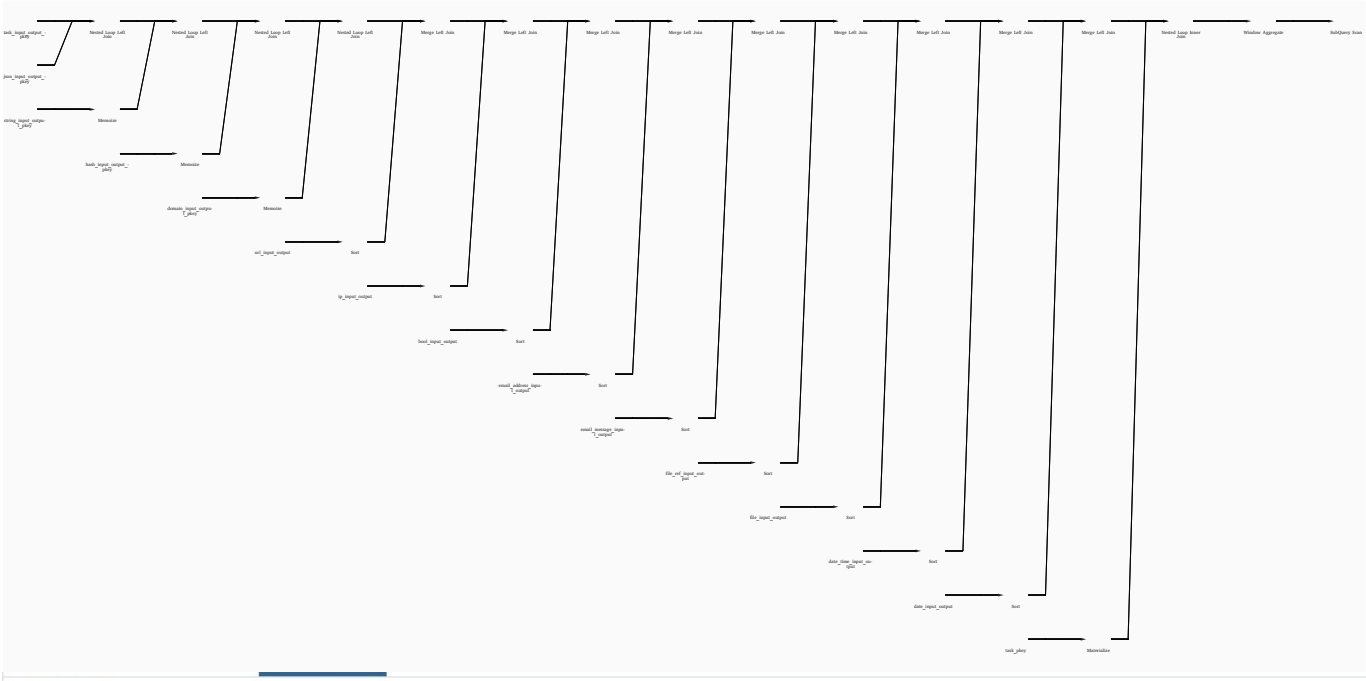
```
       anon_1.id_8,
       anon_1.date_value,
       anon_1.id_9,
       anon_1.datetime_value,
       anon_1.id_10,
       anon_1.email_address_value,
       anon_1.id_11,
       anon_1.email_message_value,
       anon_1.id_12,
       anon_1.file_ref_value,
       anon_1.id_13,
       anon_1.file_value,
       __parent_id,
       __row_number
FROM (SELECT task_input_output_1.type                                                    AS type,
             task_input_output_1.description                                             AS description,
             task_input_output_1.input_of_id                                             AS input_of_id,
             task_input_output_1.output_of_id                                            AS output_of_id,
             task_input_output_1.id                                                      AS id,
             string_input_output_1.id                                                    AS id_1,
             string_input_output_1.string_value                                          AS string_value,
             string_input_output_1.string_regex                                          AS string_regex,
             json_input_output_1.id                                                      AS id_2,
             json_input_output_1.json_value                                              AS json_value,
             json_input_output_1.json_schema                                             AS json_schema,
             json_input_output_1.json_initial_value                                      AS json_initial_value,
             json_input_output_1.json_formly_schema                                      AS json_formly_schema,
             bool_input_output_1.id                                                      AS id_3,
             bool_input_output_1.boolean_value                                           AS boolean_value,
             hash_input_output_1.id                                                      AS id_4,
             hash_input_output_1.hash_value                                              AS hash_value,
             domain_input_output_1.id                                                    AS id_5,
             domain_input_output_1.domain_value                                          AS domain_value,
             url_input_output_1.id                                                       AS id_6,
             url_input_output_1.url_value                                                AS url_value,
             ip_input_output_1.id                                                        AS id_7,
             ip_input_output_1.ip_value                                                  AS ip_value,
             date_input_output_1.id                                                      AS id_8,
             date_input_output_1.date_value                                              AS date_value,
             date_time_input_output_1.id                                                 AS id_9,
             date_time_input_output_1.datetime_value                                     AS datetime_value,
             email_address_input_output_1.id                                             AS id_10,
             email_address_input_output_1.email_address_value                            AS email_address_value,
             email_message_input_output_1.id                                             AS id_11,
             email_message_input_output_1.email_message_value                            AS email_message_value,
             file_ref_input_output_1.id                                                  AS id_12,
             file_ref_input_output_1.file_ref_value                                      AS file_ref_value,
             file_input_output_1.id                                                      AS id_13,
             file_input_output_1.file_value                                              AS file_value,
             anon_2.task_id                                                              AS __parent_id,
             row_number() OVER (PARTITION BY anon_2.task_id ORDER BY task_input_output_1.id DESC) AS __row_number
      FROM task_input_output AS task_input_output_1
               LEFT OUTER JOIN string_input_output AS string_input_output_1
                               ON string_input_output_1.id = task_input_output_1.id
               LEFT OUTER JOIN json_input_output AS json_input_output_1
                               ON json_input_output_1.id = task_input_output_1.id
               LEFT OUTER JOIN bool_input_output AS bool_input_output_1
                               ON bool_input_output_1.id = task_input_output_1.id
               LEFT OUTER JOIN hash_input_output AS hash_input_output_1
                               ON hash_input_output_1.id = task_input_output_1.id
               LEFT OUTER JOIN domain_input_output AS domain_input_output_1
                               ON domain_input_output_1.id = task_input_output_1.id
               LEFT OUTER JOIN url_input_output AS url_input_output_1 ON url_input_output_1.id = task_input_output_1.id
               LEFT OUTER JOIN ip_input_output AS ip_input_output_1 ON ip_input_output_1.id = task_input_output_1.id
               LEFT OUTER JOIN date_input_output AS date_input_output_1
                               ON date_input_output_1.id = task_input_output_1.id
               LEFT OUTER JOIN date_time_input_output AS date_time_input_output_1
                               ON date_time_input_output_1.id = task_input_output_1.id
               LEFT OUTER JOIN email_address_input_output AS email_address_input_output_1
                               ON email_address_input_output_1.id = task_input_output_1.id
               LEFT OUTER JOIN email_message_input_output AS email_message_input_output_1
                               ON email_message_input_output_1.id = task_input_output_1.id
               LEFT OUTER JOIN file_ref_input_output AS file_ref_input_output_1
                               ON file_ref_input_output_1.id = task_input_output_1.id
               LEFT OUTER JOIN file_input_output AS file_input_output_1
                               ON file_input_output_1.id = task_input_output_1.id
               JOIN (SELECT task.weight            AS task_weight,
                            task.name              AS task_name,
                            task.description       AS task_description,
                            task.created           AS task_created,
                            task.last_updated      AS task_last_updated,
                            task.due_date          AS task_due_date,
                            task.state             AS task_state,
                            task.stage_id          AS task_stage_id,
                            task.is_automated      AS task_is_automated,
                            task.type              AS task_type_1,
                            task.task_type         AS task_task_type,
                            task.processing_queue  AS task_processing_queue,
                            task.created_by_id     AS task_created_by_id,
                            task.id                AS task_id,
                            generic_task.id        AS generic_task_id,
                            decision_task.decision AS decision_task_decision,
                            decision_task.id       AS decision_task_id
                     FROM task
                              LEFT OUTER JOIN generic_task ON generic_task.id = task.id
                              LEFT OUTER JOIN decision_task ON decision_task.id = task.id) AS anon_2
                    ON anon_2.task_id = task_input_output_1.output_of_id
      WHERE anon_2.task_id IN (64)) AS anon_1
WHERE __row_number <= 1
```

Execution times

Try	Time (ms)
1	1037
3	1073
4	815
5	1046
6	1016
7	1003
8	1135
9	1002
10	1293

Average execution time

942.0 ms



Graphical | Analysis | Statistics

	#	Node	Rows Actual	Loops
	1.	→ Subquery Scan (rows=1 loops=1) **Filter**: (anon_1.__row_number <= 1) **Rows Removed by Filter**: 0	1	1
	2.	→ Window Aggregate (rows=1 loops=1)	1	1
	3.	→ Nested Loop Inner Join (rows=1 loops=1)	1	1
	4.	→ Merge Left Join (rows=1 loops=1)	1	1
	5.	→ Merge Left Join (rows=1 loops=1)	1	1
	6.	→ Merge Left Join (rows=1 loops=1)	1	1
	7.	→ Merge Left Join (rows=1 loops=1)	1	1
	8.	→ Merge Left Join (rows=1 loops=1)	1	1
	9.	→ Merge Left Join (rows=1 loops=1)	1	1
	10.	→ Merge Left Join (rows=1 loops=1)	1	1
	11.	→ Merge Left Join (rows=1 loops=1)	1	1
	12.	→ Merge Left Join (rows=1 loops=1)	1	1

	13.	→ Nested Loop Left Join (rows=1 loops=1)	1	1
	14.	→ Nested Loop Left Join (rows=1 loops=1)	1	1
	15.	→ Nested Loop Left Join (rows=1 loops=1)	1	1
	16.	→ Nested Loop Left Join (rows=1 loops=1)	1	1
	17.	→ Index Scan using task_input_outpu… **Filter**: (output_of_id = 64) **Rows Removed by Filter**: 85	1	1
	18.	→ Index Scan using json_input_outpu… **Index Cond**: (id = task_input_output_1.id	0	1
	19.	→ Memoize (rows=1 loops=1) **Buckets**: **Batches**: **Memory Usage**: 1 kB	1	1
	20.	→ Index Scan using string_input_outp… **Index Cond**: (id = task_input_output_1.id	1	1
	21.	→ Memoize (rows=0 loops=1) **Buckets**: **Batches**: **Memory Usage**: 1 kB	0	1
	22.	→ Index Scan using hash_input_output_pk… **Index Cond**: (id = task_input_output_1.id)	0	1
	23.	→ Memoize (rows=0 loops=1) **Buckets**: **Batches**: **Memory Usage**: 1 kB	0	1
	24.	→ Index Scan using domain_input_output_pkey… **Index Cond**: (id = task_input_output_1.id)	0	1
	25.	→ Sort (rows=1 loops=1)	1	1
	26.	→ Seq Scan on url_input_output as url_input_output…	1	1
	27.	→ Sort (rows=0 loops=1)	0	1
	28.	→ Seq Scan on ip_input_output as ip_input_output_1 (ro…	0	1
	29.	→ Sort (rows=1 loops=1)	1	1
	30.	→ Seq Scan on bool_input_output as bool_input_output_1 (ro…	1	1
	31.	→ Sort (rows=0 loops=1)	0	1
	32.	→ Seq Scan on email_address_input_output as email_address_inp…	0	1
	33.	→ Sort (rows=0 loops=1)	0	1
	34.	→ Seq Scan on email_message_input_output as email_message_input…	0	1
	35.	→ Sort (rows=0 loops=1)	0	1
	36.	→ Seq Scan on file_ref_input_output as file_ref_input_output_1 (rows=0 loo…	0	1
	37.	→ Sort (rows=0 loops=1)	0	1
	38.	→ Seq Scan on file_input_output as file_input_output_1 (rows=0 loops=1)	0	1
	39.	→ Sort (rows=0 loops=1)	0	1
	40.	→ Seq Scan on date_time_input_output as date_time_input_output_1 (rows=0 loops=1)	0	1
	41.	→ Sort (rows=0 loops=1)	0	1
	42.	→ Seq Scan on date_input_output as date_input_output_1 (rows=0 loops=1)	0	1
	43.	→ Materialize (rows=1 loops=1)	1	1
	44.	→ Index Only Scan using task_pkey on task as task (rows=1 loops=1) **Index Cond**: (id = 64)	1	1