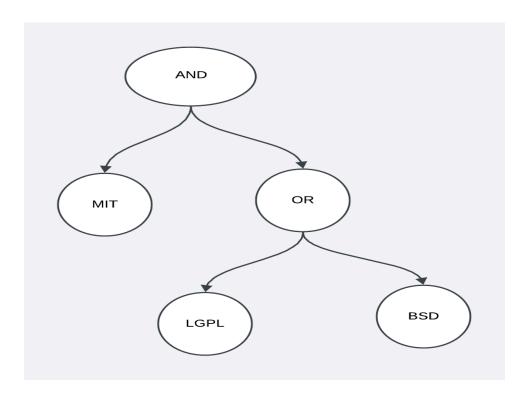
License Expression Schema

License Expression - MIT AND (LGPL OR BSD)

Abstract Syntax tree:



<u>License_expression table schema:</u>

- license_exp_pk Primary key, Type bigint, Default nextval('license_ref_rf_pk_seq'::regclass)
- left_rf_fk Type bigint
- right_rf_fk Type bigint
- Operator Type varchar

Left_rf_fk and right_rf_fk store rf_pk from license_ref or rf_pk from license_candidate or license_exp_pk from license_expression.

<u>Database Snapshot for the above license expression:</u>

License_ref

rf_pk	rf_shortname
1	MIT

License Expression Schema

2	LGPL
3	BSD

License_expression

license_exp_pk	left_rf_fk	right_rf_fk	operator
4	2	3	OR
5	1	4	AND

The root node of the tree that is license_exp_pk "5" can be stored as license expression id in license_file, clearing_event etc. We can also write recursive functions to obtain the license expression using root node as well as modify it.

Another way to store: JSON

Schema:

- license_exp_pk Primary key, Type bigint, Default nextval('license_ref_rf_pk_seq'::regclass)
- expression type JSONB

Example snapshot:

License_expression

```
license_exp_pk expression

{

    "Type": "expression",
    "Operator": "AND",
    "Left": {
        "Type": "license",
        "rf_fk": 1,
        },
        "Right": {
        "Type": "expression",
        "Operator": "OR",
        "Left": {
            "Type": "license",
            "ff_fk": 2,
```

License Expression Schema

Other Tables:

- License file license exp pk as rf fk
- Highlight fl_pk from license_file as fl_fk to highlight license expression
- License_ref License_expression will be inherited from license_ref. Rf_pk from license_ref stored as rf_fk in expression.
- Clearing_event license_exp_pk as rf_fk [comment, reportinfo, acknowledgement from expression for each license of expression].
- Clearing_decision fl_pk from license_file as pfile_fk