Dynflow tables are tried to migrate in parallel

Suspicion: Dynflow tries to migrate the tables when it boots up. Maybe Dynflow tries to migrate the database several times at once from different Puma workers.

Examples:

- CentOS 7:

```
/opt/theforeman/tfm/root/usr/share/gems/gems/sequel-5.7.1/lib/sequel/adapters/postgres.rb:146: in `async_exec': PG::UniqueViolation: ERROR: duplicate key value violates unique constraint "pg_type_typname_nsp_index" (Sequel::UniqueConstraintViolation)  
DETAIL: Key (typname, typnamespace)=(dynflow_schema_info, 2200) already exists.
```

- Ubuntu 18.04:

```
dynflow-sidekiq@orchestrator[8451]: More than 1 row in migrator table  
dynflow-sidekiq@orchestrator[8451]: /usr/share/theforeman/vendor/ruby/2.5.0/gems/sequel-5.30.0/lib/sequel/adapters/postgres.rb:620:in `schema_dataset'  
dynflow-sidekiq@orchestrator[8451]: /usr/share/theforeman/vendor/ruby/2.5.0/gems/sequel-5.30.0/lib/sequel/extensions/migration.rb:455:in `initialize'  
dynflow-sidekiq@orchestrator[8451]: /usr/share/theforeman/vendor/ruby/2.5.0/gems/sequel-5.30.0/lib/sequel/extensions/migration.rb:519:in `initialize'  
dynflow-sidekiq@orchestrator[8451]: /usr/share/theforeman/vendor/ruby/2.5.0/gems/sequel-5.30.0/lib/sequel/extensions/migration.rb:402:in `new'  
dynflow-sidekiq@orchestrator[8451]: /usr/share/theforeman/vendor/ruby/2.5.0/gems/sequel-5.30.0/lib/sequel/extensions/migration.rb:402:in `run'  
dynflow-sidekiq@orchestrator[8451]: /usr/share/theforeman/vendor/ruby/2.5.0/gems/dynflow-1.4.3/lib/dynflow/persistence_adapters/sequel.rb:263:in `migrate_db'
```

Associated revisions

Revision 7a3d995c - 05/11/2020 10:52 AM - Adam Ruzicka
Fixes #29429 - Provide rake tasks for Dynflow migrations

Historically Dynflow tried to migrate its database on startup. This became an issue with the move to Puma, because multiple instances of Dynflow running in separate Puma workers would try to migrate the database concurrently and the workers would die because of unique key validation errors.

This change adds dynflow:abort_if_pending_migrations rake task for checking if
the Dynflow database is fully migrated. It also extends the `db:migrate` and `db:abort_if_pending_migrations` to run their Dynflow counterparts as well.

Revision 7378af98 - 05/11/2020 10:52 AM - Adam Ruzicka
Fixes #29429 - Bump dependency on Dynflow

History

#1 - 03/31/2020 12:16 PM - Ewoud Kohl van Wijngaarden
One solution is to create rake tasks to do this and let the installer handle it. For the regular DB it uses two tasks (`db:migrate` and `db:abort_if_pending_migrations`) to indicate whether a migration is needed and to actually migrate. This provides idempotency.

#2 - 04/17/2020 09:07 AM - The Foreman Bot
- Assignee set to Adam Ruzicka
- Status changed from New to Ready For Testing
- Pull request https://github.com/theforeman/foreman/pull/7593 added

#3 - 04/17/2020 12:22 PM - Adam Ruzicka
- Category deleted (DB migrations)
- Pull request https://github.com/Dynflow/dynflow/pull/353 added

#4 - 05/11/2020 10:52 AM - The Foreman Bot
- Fixed in Releases 2.2.0 added

#5 - 05/11/2020 11:01 AM - Adam Ruzicka
- Status changed from Ready For Testing to Closed

Applied in changeset 7a3d995cc2fe6e84ad25148747a9e39dc0ad96415.

#6 - 05/12/2020 06:41 AM - Tomer Brisker
- Fixed in Releases 2.1.0 added
- Fixed in Releases deleted (2.2.0)

#7 - 05/13/2020 02:44 PM - Amit Upadhye
- Category set to DB migrations