🚀 CI/CD: dbt Build Workflows (Development & Production)

This project uses GitHub Actions to automate `dbt build` for both **development** and **production** environments.

Each environment has a dedicated workflow file under `.github/workflows/`, triggered **manually** or **on a schedule**.

📂 Workflow Files

```
.github/workflows/
├── dbt_build_dev.yml   # Development environment
└── dbt_build_prd.yml   # Production environment
```

🧪 Development Build (dbt_build_dev.yml)

🔁 Triggers

- **Scheduled run:** Daily at **09:00 UTC** (**04:00 AM EST**)
- **Manual run:** Via GitHub Actions UI (`workflow_dispatch`)

⚠️ Branch Condition

The workflow **only runs if the current branch is development**, even if manually triggered or scheduled.

```
if: github.ref == 'refs/heads/development'
```

🔧 Configuration

- Target profile: `dev`
- Working directory: `cai_bi`
- dbt command:

```
dbt build --profiles-dir ./profiles --target dev
```

☑️ Production Build (dbt_build_prd.yml)

🔁 Triggers

- **Scheduled run:** Daily at **09:00 UTC** (**04:00 AM EST**)
- **Manual run:** Via GitHub Actions UI (`workflow_dispatch`)

⚠ Branch Condition

The workflow **only runs if the current branch is** `main`:

```
if: github.ref == 'refs/heads/main'
```

🔧 Configuration

- Target profile: `prd`
- Working directory: `cai_bi`
- dbt command:

```
dbt build --profiles-dir ./profiles --target prd
```

🔐 Secrets & Authentication

Both workflows rely on GitHub Secrets:

- `SNOWFLAKE_PK_BASE64` – Base64-encoded Snowflake private key
- `NOTIFICATION_MAIL_USERNAME` / `NOTIFICATION_MAIL_PASSWORD` – For email alerts

The private key is decoded and stored at:

```
~/.ssh/snowflake_key.pem
```

📧 Failure Notifications

If the `dbt build` fails:

- An email is sent to:
  - itsupport@cagents.com
  - evan.gutzwiller@cagents.com

The email includes:

- Workflow name
- Branch and commit SHA
- GitHub Actions run URL

🔗 Related Files

- `profiles.yml` – Snowflake profile config for `dev` and `prd`
- `dbt_project.yml` – Project configuration
- `development_process.md` – dbt development process and workflow
- `installation_and_setup.md` – dbt installation and setup

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