Prevent User Deletion If Assigned To An Incident

1. Enforce It Where It Matters Most

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Layer
              | Why it helps
                                                        | Typical implementation
                                                                                                             Database | Absolute last line of defence; protects from rogue scripts | Foreign key with ON DELETE RESTRICT
or trigger to raise exception
| Service layer/ORM | Clean rule in business logic, return friendly errors
                                                                       | Check via query (e.g. exists check)
| API/Controller | Catch and return appropriate API response
                                                                      | Wrap delete call, return 409 or 422
| UI
             | Prevents user attempt visually
                                                            | Grey-out button or show message
Best practice: Implement checks in every layer, but DB constraint is essential.
2. Quick Reference Snippets
SQL (PostgreSQL):
ALTER TABLE incidents
 ADD CONSTRAINT fk_incident_user
 FOREIGN KEY (assigned_user_id)
 REFERENCES users(id)
 ON DELETE RESTRICT;
SQL Trigger (PostgreSQL):
CREATE OR REPLACE FUNCTION prevent user delete()
RETURNS TRIGGER AS $$
BEGIN
 IF EXISTS (SELECT 1 FROM incidents WHERE assigned_user_id = OLD.id) THEN
  RAISE EXCEPTION 'Cannot delete user %: still assigned to incident(s)', OLD.id;
 END IF;
 RETURN OLD;
END:
$$ LANGUAGE plpgsql;
CREATE TRIGGER trg_block_user_delete
BEFORE DELETE ON users
FOR EACH ROW EXECUTE FUNCTION prevent_user_delete();
Django ORM:
from django.db import IntegrityError
from incidents.models import Incident
from users.models import User
def delete_user(user_id):
  if Incident.objects.filter(assigned_user_id=user_id).exists():
    raise IntegrityError("User cannot be deleted: assigned to incident(s).")
  User.objects.filter(id=user_id).delete()
```

```
Node.js (Express + Sequelize):
async function deleteUser(req, res) {
 const { userId } = req.params;
 const count = await Incident.count({ where: { assignedUserId: userId } });
 if (count) {
  return res.status(409).json({
   error: "User is assigned to one or more incidents and cannot be deleted.",
  });
 }
 await User.destroy({ where: { id: userId } });
 res.status(204).end();
}
ServiceNow Script Include:
var UserValidator = Class.create();
UserValidator.prototype = {
 preventDeletion: function(userSysId) {
  var incGr = new GlideRecord('incident');
  incGr.addQuery('assigned_to', userSysId);
  incGr.query();
  if (incGr.hasNext()) {
   gs.addErrorMessage('User is assigned to an Incident and cannot be deleted.');
   return false;
  return true;
 type: 'UserValidator'
};
```

3. Optional Extras

- Soft-delete (is_deleted flag) for historical tracking.
- Nightly cleanup jobs to notify stale assignments.
- Unit & integration tests to protect logic.

Next Step: Adapt code for your stack (Laravel, Spring Boot, ServiceNow, etc.) as needed.