



## **Work-for-Lodging Program**

Waldhotel & CODE University of Applied Sciences

ER & Process Diagrams

Version September 11, 2025

# ER Diagram: "Work-for-Lodging" (Hotel & CODE Students)

This document contains three diagrams:

- **A) People, Accommodation & Payroll** (employment, rooms, lodging benefit, payroll)
- **B) Projects, Work & Timesheets** (InnovationOffice, tasks/shifts, timesheets, skills)
- **C) Documentation & Media** (project docs with versioning; media assets, subjects, polymorphic attachments)



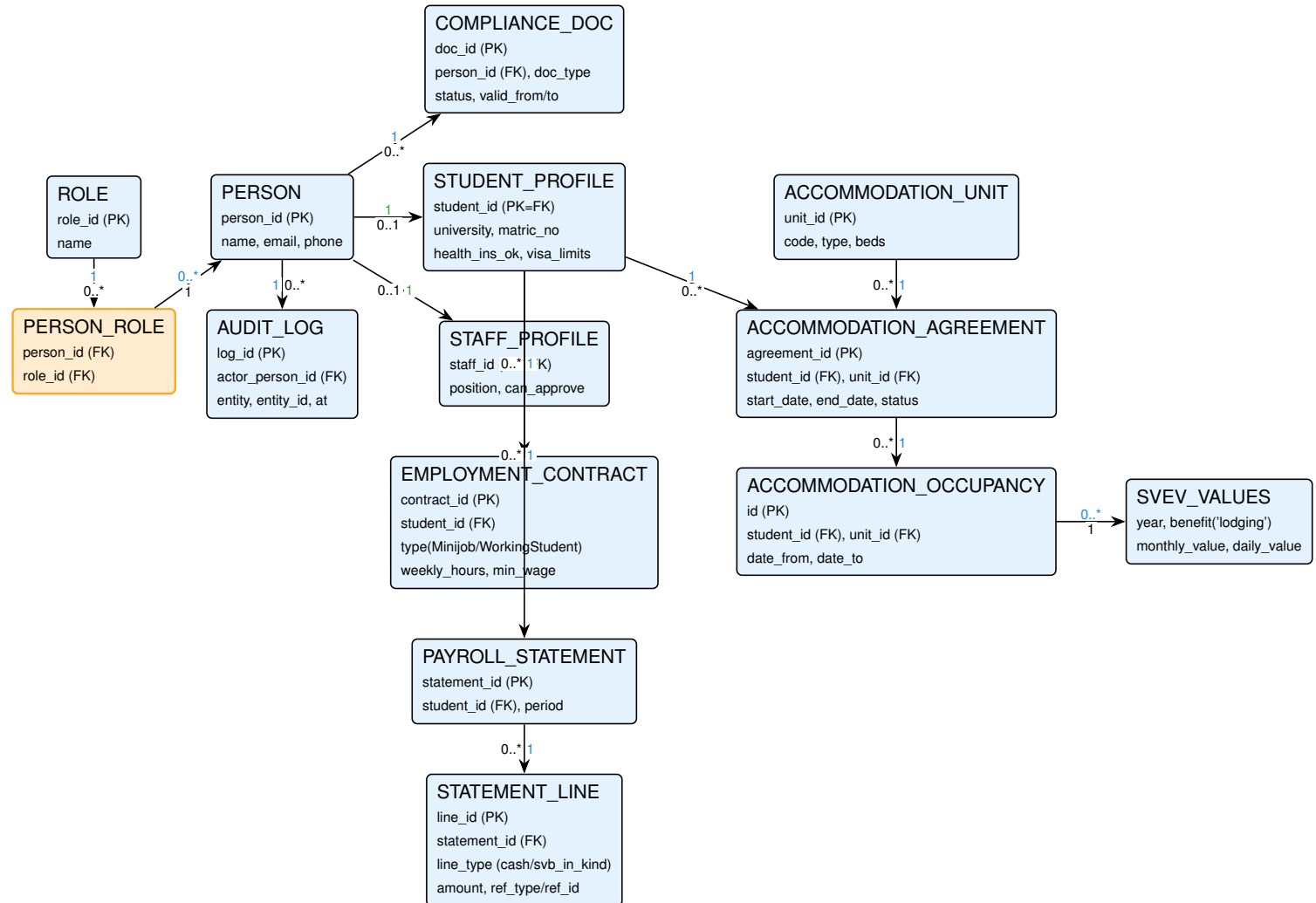
## Executive Summary: End-to-end Process

1. **Eligibility & Onboarding** — Create PERSON, then either STUDENT\_PROFILE or STAFF\_PROFILE. Collect required COMPLIANCE\_DOCs (enrolment, residence/work permit, contracts).
2. **Contracting** — Insert EMPLOYMENT\_CONTRACT (Minijob or Working-Student). Enforce the semester 20h rule in app logic where applicable.
3. **Lodging** — Create ACCOMMODATION\_AGREEMENT (history 1:n per student) and day-level ACCOMMODATION\_OCCUPANCY. Value lodging via SVEV\_VALUES (1/30 daily proration).
4. **Project Intake** — Maintain PROJECT backlog; define TASKs; optionally map skills (TASK\_REQUIRED\_SKILL). Assign students via PROJECT\_ASSIGNMENT (n:m). Optionally attach mentors via PROJECT\_MENTOR (n:m).
5. **Work Execution** — Students log time as TIMESHEET\_ENTRY on either a TASK or a SHIFT (XOR). Approvers confirm via TIMESHEET\_APPROVAL.
6. **Payroll Cut-off** — Aggregate approved hours: cash pay must meet statutory minimum per hour; add lodging as in-kind. Post both into PAYROLL\_STATEMENT/STATEMENT\_LINE. Provide MiLoG and Minijob checks as views.
7. **Audit & Closure** — Keep AUDIT\_LOG; archive COMPLIANCE\_DOCs; roll over projects and accommodation as needed.

## Color logic

- **Blue/Green/Purple boxes** = domain groups A/B/C.
- **Orange boxes** = *junction tables* (represent many-to-many).
- **Process (page B panel)** uses red/amber/green markers for request/plan/approval states.

## A) People, Accommodation & Payroll



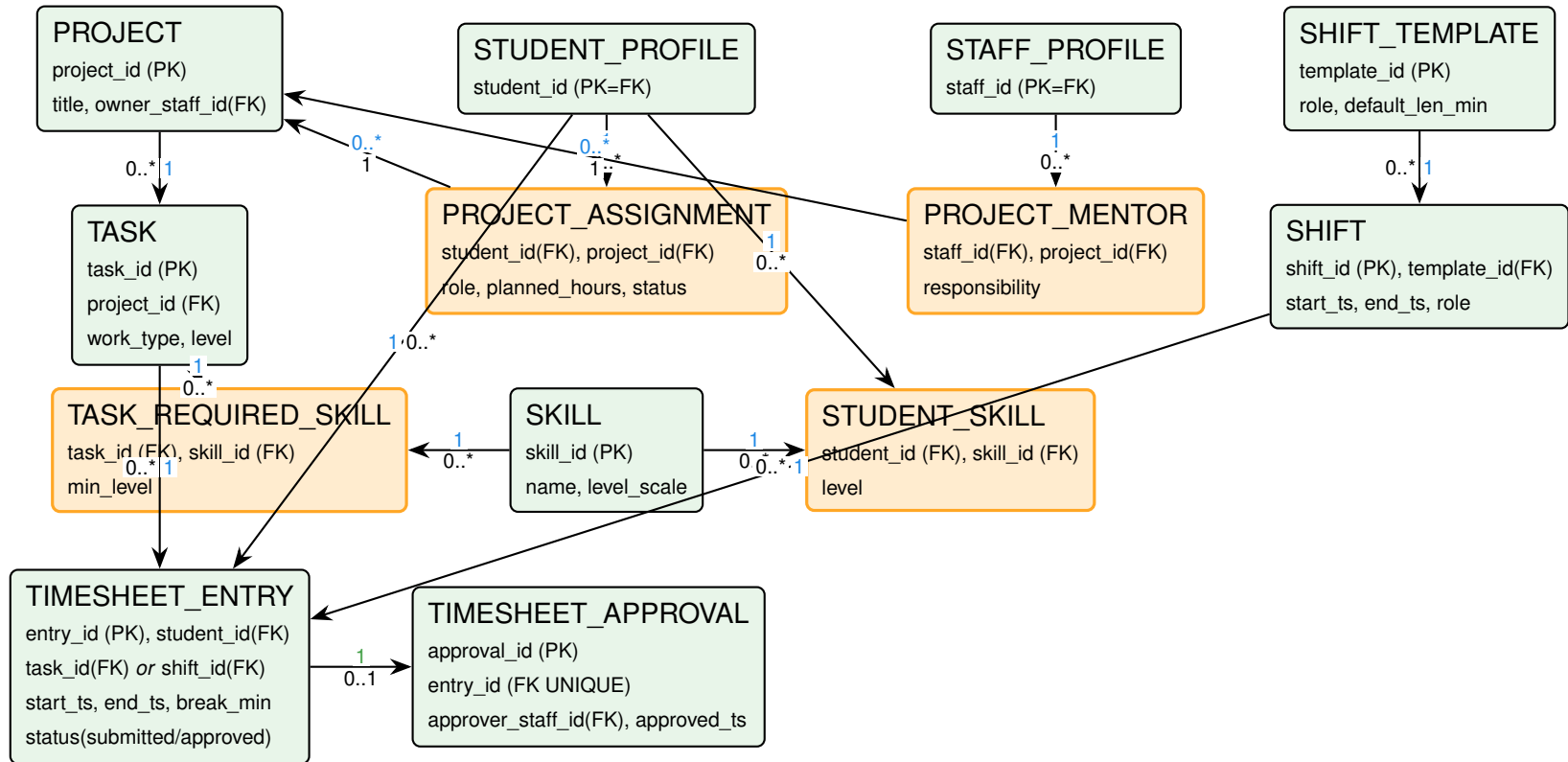
### Notes A

**Active lodging rule.** Exactly one *active* agreement per student at any time (partial UNIQUE on status='active').

**Wage vs. in-kind.** Cash must meet minimum wage; lodging is daily (1/30 of monthly SVEV value) as a separate statement line.

**Roles.** PERSON\_ROLE is a junction (n:m) between PERSON and ROLE.

## B) Projects, Work & Timesheets



### Notes B

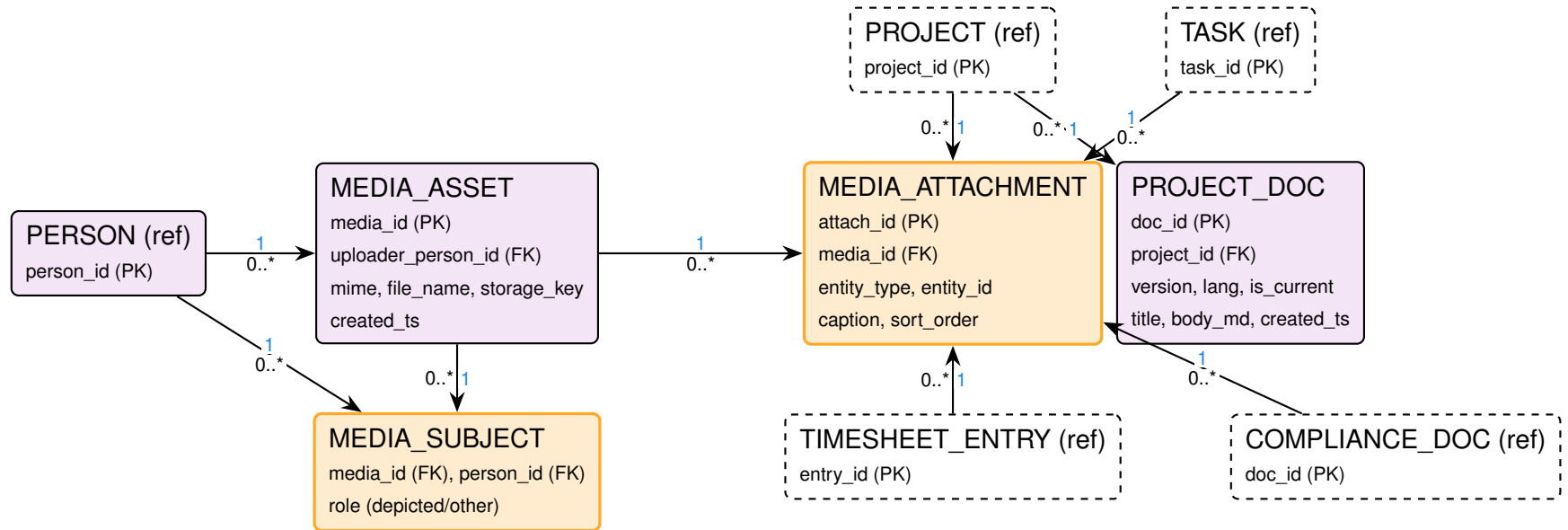
**XOR timesheet.** Exactly one foreign key set: TASK or SHIFT.

**n:m markers.** Orange boxes are junctions (n:m).

**Process ("traffic light"):**

- Project created
- Student applies with plan
- Staff approves (plan+project)
- Rejected (optional branch)

## C) Documentation & Media



### Notes C

**Uploaders.** Staff and Students are both PERSONs; MEDIA\_ASSET keeps uploader\_person\_id.

**Who appears?** MEDIA\_SUBJECT maps depicted people (n:m).

**Attach everywhere.** MEDIA\_ATTACHMENT supports PROJECT, TASK, TIMESHEET\_ENTRY, COMPLIANCE\_DOC via (entity\_type, entity\_id) + index.

**Project docs.** Versioned: UNIQUE(project\_id, version, lang) and partial UNIQUE for one is\_current=true per (project, lang).