

## erDiagram

%% ---- 사용자/권한 (USR, SYS, LRN) ----

USER {

BIGINT user\_id PK "사용자 ID"

VARCHAR email UK "이메일 (로그인 ID)"

VARCHAR password\_hash "비밀번호 해시"

VARCHAR name "이름"

VARCHAR user\_type "유형(Learner, Instructor, Admin)"

VARCHAR phone\_number "연락처"

VARCHAR ci UK "본인인증 CI"

VARCHAR status "계정 상태"

TIMESTAMP created\_at "가입일"

}

ROLE {

INT role\_id PK "역할 ID"

VARCHAR role\_name UK "역할명 (SYS-REQ-007)"

VARCHAR description "설명"

}

USER\_ROLE {

BIGINT user\_id FK "사용자 ID"

INT role\_id FK "역할 ID (복합 PK)"

}

INSTRUCTOR {

BIGINT instructor\_id PK "강사 ID"

BIGINT user\_id FK "사용자 ID (FK from USER, UK, 1:1)"

TEXT specialty "전문 분야 (LRN-REQ-011)"

TEXT career "경력"

VARCHAR status "상태(신청, 승인, 활동중)"

}

ATHLETE\_REGISTRATION\_HISTORY {

BIGINT history\_id PK "경기인 등록 이력 ID"

BIGINT user\_id FK "사용자 ID"

VARCHAR details "등록 상세 정보 (POR-REQ-015)"

TIMESTAMP created\_at "데이터 생성/연동 일시"

}

ACCESS\_LOG {

BIGINT log\_id PK "접근 로그 ID"

BIGINT user\_id FK "사용자 ID (Nullable)"

VARCHAR access\_type "접근 유형 (Login, PersonalInfo)"

TEXT details "상세 내용 (SYS-REQ-011)"

TIMESTAMP created\_at "로그 시간"

}

%% ---- 관계 정의 (사용자/권한 중심) ----

USER ||--o{ USER\_ROLE : "has"

USER ||--o{ INSTRUCTOR : "is an"

USER ||--o{ ENROLLMENT : "applies for (학습)"

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USER ||--o{ POST : "writes (커뮤니티)"
USER ||--o{ COMMENT : "writes (커뮤니티)"
USER ||--o{ SURVEY_RESPONSE : "responds to (학습)"
USER ||--o{ FACILITY_RENTAL : "requests (시설)"
USER ||--o{ PAYMENT : "makes (결제)"
USER ||--o{ ACCESS_LOG : "generates"
USER ||--o{ NOTIFICATION_LOG : "receives (시스템)"
USER ||--o{ ATHLETE_REGISTRATION_HISTORY : "has"

ROLE ||--o{ USER_ROLE : "assigned to"

INSTRUCTOR ||--o| COURSE_BATCH : "taught by (Nullable, 과정)"
```