**Mapping:**

**Student** (**st\_id**, st\_name, st\_age, st\_address, st\_email, st\_phone, track\_id)

**Instructor** (**ins\_id**, ins\_name, ins\_birthdate, ins\_email, ins\_salary, ins\_phone, dept\_id)

**Exam** (**ex\_id**, ex\_type, ex\_allowoptions, ex\_year, ex\_totaltime, ex\_st\_time, ex\_end\_time, TF\_num, Mcq\_num**,** ins\_id, crs\_id)

**Course** (**crs\_id,** crs\_name, mn\_degree, mx\_degree, track\_id)

**Topic** (**topic\_id,** topic\_name, crs\_id)

**Question\_pool** (**q\_id,** q\_question, q\_type, q\_correct\_ans, q\_degree, crs\_id)

**Question\_mcqOptions** (**q\_id,** mcq\_options)

**Department** (**dept\_id,** dept\_name, dept\_desc, branch\_id, ins\_id(mgr), HireDate)

**Track** (**track\_id,** track\_name, dept\_id, intake\_id)

**Intake** (**intake\_id,** intake\_name, intake\_year)

**Branch** (**branch\_id,** branch\_name, branch\_location)

**Exam\_contain\_question** (ex\_id, q\_id)

**Stud\_enroll\_course** (st\_id, crs\_id, grade, status)

**Stud\_answer\_exam** (st\_id, ex\_id, crs\_id, student\_answer)

**Ins\_teach\_course** (ins\_id, crs\_id, year)