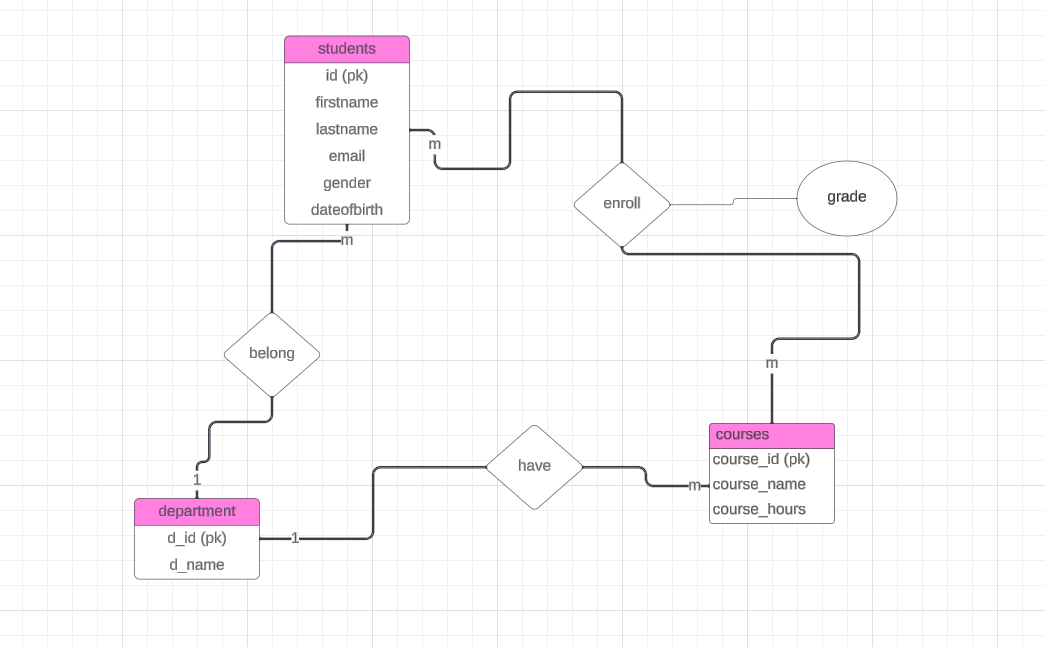
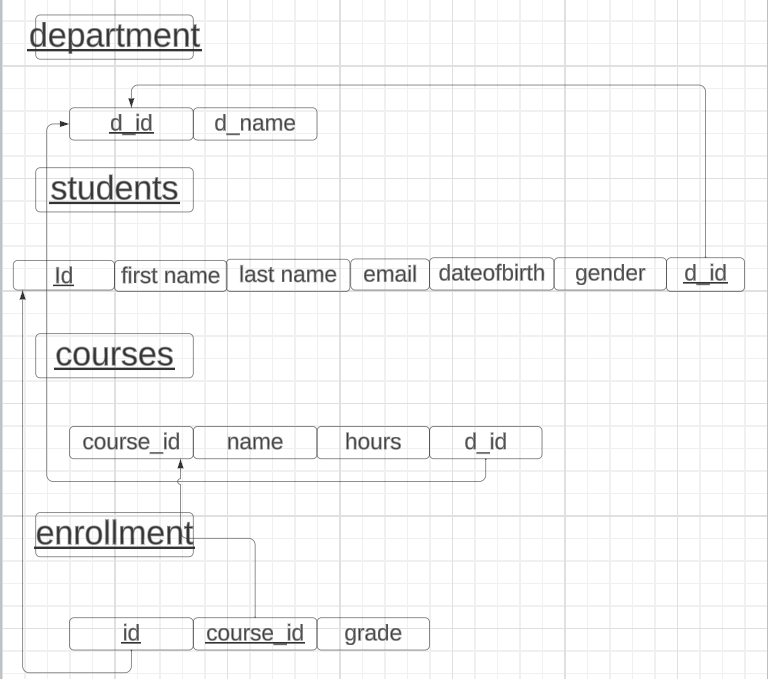
**Case study**

1. **Erd diagram**



1. **Schema diagram**



1. **Normalization**

1nf:

No multivalues , repeating groups

departments:

d\_id , d\_name

students:

id , first\_name , last\_name , email , dateofbirth , gender , d\_id

courses:

course\_id, course\_name , course\_hours , d\_id

enrollment:

course\_id , id , grade

2nf , 3nf:

2nf :All non-key attributes fully dependent on the primary key

3nf: no transitive dependencies

departments:

d\_id , d\_name

students:

id , first\_name , last\_name , email , dateofbirth , gender , d\_id

courses:

course\_id, course\_name , course\_hours , d\_id

enrollment:

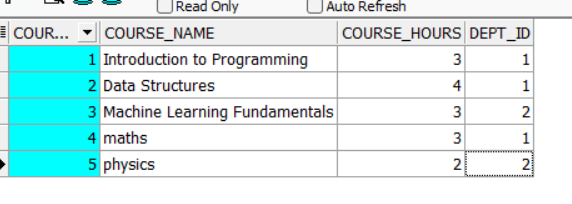
course\_id , id , grade

**sql scripts:**

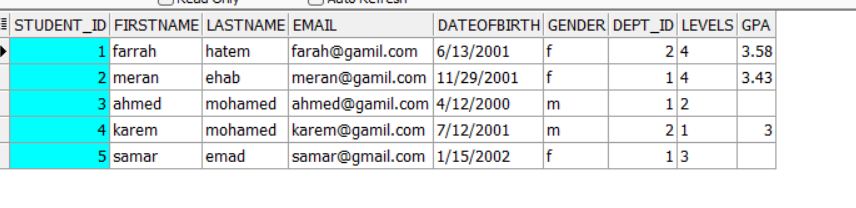
1. **Create tables**

****

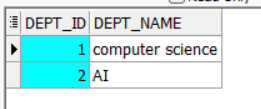
**Courses table:**

****

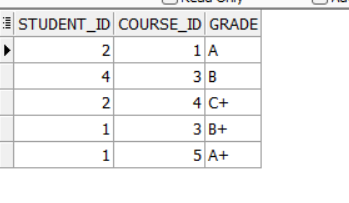
**Students table:**

****

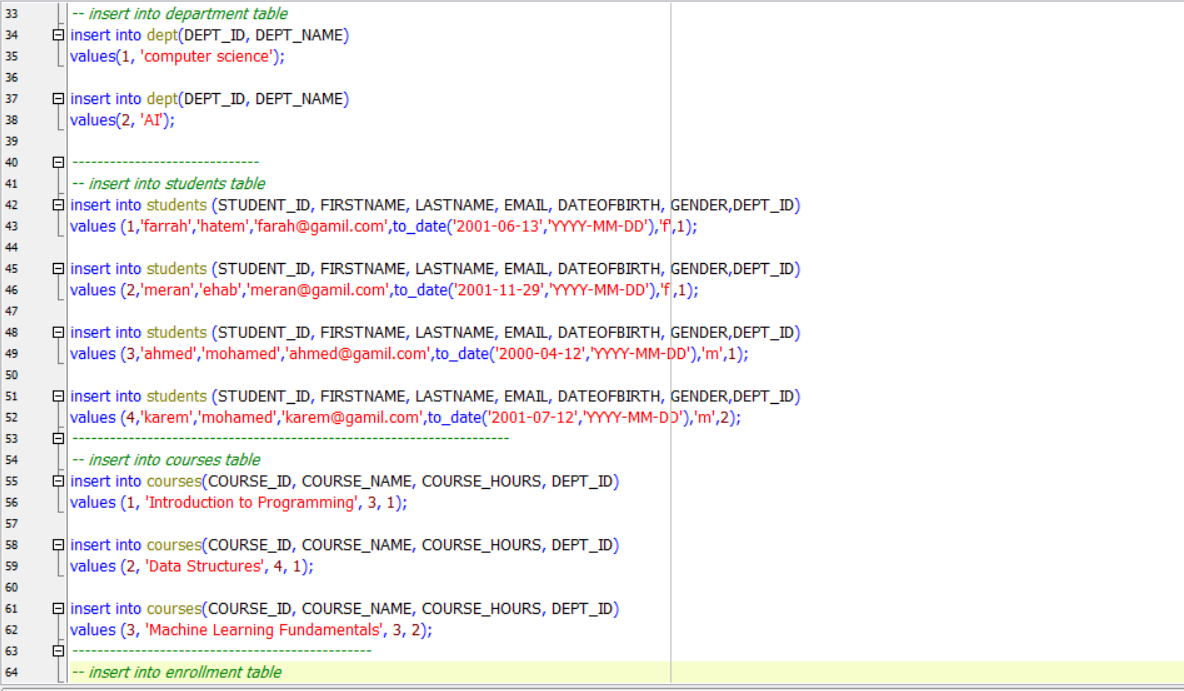
**Dept table:**

****

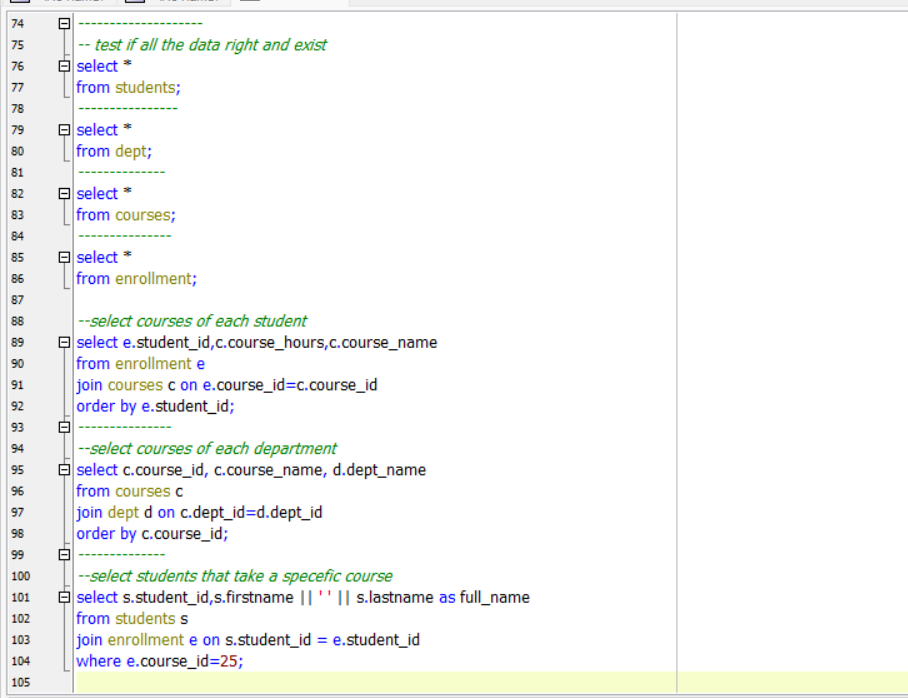
**Enrollment table:**

****

1. **Insert into tables**

****

1. **Testing**

****