```
Student(s_id, name, address, age, sex, gpa)
```

```
\{s\_id \rightarrow name, s\_id \rightarrow address, s\_id \rightarrow age, s\_id \rightarrow sex, s\_id \rightarrow gpa\} \{name \rightarrow sex\} \{name, s\_id\} \Rightarrow is a superkey \{s\_id\} \Rightarrow key
```

Grade(s_id,marks, bonus)

```
\{s\_id \rightarrow marks, bonus\}
\{s\_id\} \Rightarrow key
```

Course(course_id, name)

{course_id → name} {name → course_id} This is non functional dependency

Professor(prof_id, name, experience, dept_id)

```
\{ prof\_id \rightarrow name \}
\{ name \rightarrow prof\_id \}
\{ prof\_id, name \} \Rightarrow superkey
\{ prof\_key \} \Rightarrow key
```

Books(books_id, name, genre)

```
{books_id → name, book_id → genre}

{name → genre}

{book_id, name} ⇒ superkey

{book_id} ⇒ key
```

Library(name, no_books, library_id, books_id)

```
{book_id → no_boos}
{library_id → name, library_id → no_books}
{book_id, lib_id} ⇒ superkey
{book_id} ⇒ key

—————Common FDs———
{s_id → marks, s_id → book_id}
{book_id → library_id, library_name}
{s_id → course_id, course_name, course_id → section_name}
{dept_id → prof_id, dept_id → assistant_id, section_id}
```