MyDao

@Dao

public interface MyDao

{

@Insert(onConflict = OnConflictStrategy.REPLACE)

Long insertIntoCourse(Course c);

@Insert(onConflict = OnConflictStrategy.REPLACE)

Long insertIntoStudent(Student s);

@Query("select \* from tbl\_course,tbl\_student where tbl\_course.course\_id=tbl\_student.course\_id and tbl\_course.course\_name=:CourseName")

public Cursor loadDataViaCourseName(String CourseName);

@Query("select tbl\_course.course\_name,tbl\_student.student\_name from tbl\_course,tbl\_student group by tbl\_course.course\_name")

public Cursor loadDataCourseNameWise();

}

MyDatabase

package com.example.roomdatabasewithrelation.Database;

import androidx.room.Database;

import androidx.room.RoomDatabase;

import com.example.roomdatabasewithrelation.DAO.MyDao;

import com.example.roomdatabasewithrelation.Entities.Course;

import com.example.roomdatabasewithrelation.Entities.Student;

@Database(entities = {Course.class, Student.class},version = 1)

public abstract class MyDatabase extends RoomDatabase

{

public abstract MyDao myDao();

}

Entity Course

package com.example.roomdatabasewithrelation.Entities;

import androidx.room.ColumnInfo;

import androidx.room.Entity;

import androidx.room.PrimaryKey;

@Entity(tableName = "tbl\_course")

public class Course

{

@PrimaryKey(autoGenerate = true)

@ColumnInfo(name = "course\_id")

private long courseid;

@ColumnInfo(name = "course\_name")

private String CourseName;

public long getCourseid() {

return courseid;

}

public void setCourseid(long courseid) {

this.courseid = courseid;

}

public String getCourseName() {

return CourseName;

}

public void setCourseName(String courseName) {

CourseName = courseName;

}

}

Student

package com.example.roomdatabasewithrelation.Entities;

import androidx.room.ColumnInfo;

import androidx.room.Entity;

import androidx.room.ForeignKey;

import androidx.room.PrimaryKey;

@Entity(tableName = "tbl\_student",primaryKeys = {"student\_id","course\_id"})

@ForeignKey(entity = Course.class,parentColumns = "course\_id", childColumns = "course\_id",onDelete = 1,onUpdate = 1)

public class Student

{

@ColumnInfo(name = "student\_id")

private long StudentId;

@ColumnInfo(name = "student\_name")

private String StudentName;

@ColumnInfo(name = "course\_id")

private long courseid;

public long getStudentId() {

return StudentId;

}

public void setStudentId(long studentId) {

StudentId = studentId;

}

public String getStudentName() {

return StudentName;

}

public void setStudentName(String studentName) {

StudentName = studentName;

}

public long getCourseid() {

return courseid;

}

public void setCourseid(long courseid) {

this.courseid = courseid;

}

}

MainActivity

public static MyDatabase *myAppDatabase*;

*myAppDatabase* = Room.*databaseBuilder*(getApplicationContext(), MyDatabase.class,"my\_db").allowMainThreadQueries().build();  
  
Course c=new Course();  
c.setCourseName("MCA");  
Student s=new Student();  
s.setCourseid(1);  
s.setStudentId(2);  
s.setStudentName("Akhilesh");  
Long ci=*myAppDatabase*.myDao().insertIntoCourse(c);  
Long si=*myAppDatabase*.myDao().insertIntoStudent(s);  
Toast.*makeText*(this, ci+""+si+"", Toast.*LENGTH\_SHORT*).show();  
  
Cursor c1=*myAppDatabase*.myDao().loadDataCourseNameWise();  
while(c1.moveToNext())  
{  
 String temp=c1.getString(0)+" "+c1.getString(1);  
 Toast.*makeText*(this,temp, Toast.*LENGTH\_SHORT*).show();  
}