LOGIN.JAVA

package com;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.Id;

@Entity

public class Login {

@Id

private String username;

private String password;

public String getUsername() {

return username;

}

public void setUsername(String username) {

this.username = username;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

}

STUDENT.JAVA

package com;

import java.util.LinkedList;

import java.util.List;

import javax.persistence.Entity;

import javax.persistence.FetchType;

import javax.persistence.Id;

import javax.persistence.OneToMany;

@Entity

public class Student {

@Id

private String student\_id;

private String name;

private String gender;

private String joindate;

private int academicyear;

private String branch;

@OneToMany(mappedBy="student",targetEntity=Courses.class,fetch=FetchType.EAGER)

private List<Course> course=new LinkedList();

@Override

public String toString() {

return "Student [student\_id=" + student\_id + ", name=" + name + ", gender=" + gender + ", joindate=" + joindate

+ ", academicyear=" + academicyear + ", branch=" + branch + "]";

}

public String getStudent\_id() {

return student\_id;

}

public void setStudent\_id(String student\_id) {

this.student\_id = student\_id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getGender() {

return gender;

}

public void setGender(String gender) {

this.gender = gender;

}

public String getJoindate() {

return joindate;

}

public void setJoindate(String joindate) {

this.joindate = joindate;

}

public int getAcademicyear() {

return academicyear;

}

public void setAcademicyear(int academicyear) {

this.academicyear = academicyear;

}

public String getBranch() {

return branch;

}

public void setBranch(String branch) {

this.branch = branch;

}

public List<Course> getCourse() {

return course;

}

public void setCourse(List<Course> course) {

this.course= course;

}

}

STAFF.JAVA

package com;

import java.io.Serializable;

import java.util.LinkedList;

import java.util.List;

import javax.persistence.CascadeType;

import javax.persistence.Entity;

import javax.persistence.FetchType;

import javax.persistence.Id;

import javax.persistence.JoinColumn;

import javax.persistence.OneToMany;

@Entity

public class Staff implements Serializable{

@Id

private String staff\_id;

private String name;

private String email\_id;

private String qualification;

private long mobileno;

private String gender;

@OneToMany(mappedBy="staff",targetEntity=Course.class,fetch=FetchType.EAGER)

private List<Course> course=new LinkedList();

public String getStaff\_id() {

return staff\_id;

}

public void setStaff\_id(String staff\_id) {

this.staff\_id = staff\_id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getEmail\_id() {

return email\_id;

}

public void setEmail\_id(String email\_id) {

this.email\_id = email\_id;

}

public String getQualification() {

return qualification;

}

public void setQualification(String qualification) {

this.qualification = qualification;

}

public long getMobileno() {

return mobileno;

}

public void setMobileno(long mobileno) {

this.mobileno = mobileno;

}

public String getGender() {

return gender;

}

public void setGender(String gender) {

this.gender = gender;

}

public List<Course> getCourse() {

return course;

}

public void setCourse(List<Course> course) {

this.course = course;

}

}

COURSE.JAVA

package com;

import java.io.Serializable;

import javax.persistence.Entity;

import javax.persistence.FetchType;

import javax.persistence.Id;

import javax.persistence.JoinColumn;

import javax.persistence.ManyToOne;

@Entity

public class Course implements Serializable{

@Id

private String course\_id;

private String studentid;

private String staffid;

private String course\_name;

private int tutorial\_hour;

private int practical\_hour;

private int lecture\_hour;

private int credit;

@ManyToOne(optional=false)

@JoinColumn(name="staffid",referencedColumnName="staff\_id",updatable=false,insertable=false,nullable=false)

private Staff staff;

@ManyToOne(optional=false)

@JoinColumn(name="studentid",referencedColumnName="student\_id",updatable=false,insertable=false,nullable=false)

private Student student;

public Student getStudent() {

return student;

}

public void setStudent(Studentcourse student) {

this.student = student;

}

public String getCourse\_id() {

return course\_id;

}

public void setCourse\_id(String course\_id) {

this.course\_id = course\_id;

}

public String getStudentid() {

return studentid;

}

public void setStudentid(String studentid) {

this.studentid = studentid;

}

public String getStaffid() {

return staffid;

}

public void setStaffid(String staffid) {

this.staffid = staffid;

}

public String getCourse\_name() {

return course\_name;

}

public void setCourse\_name(String course\_name) {

this.course\_name = course\_name;

}

public int getTutorial\_hour() {

return tutorial\_hour;

}

public void setTutorial\_hour(int tutorial\_hour) {

this.tutorial\_hour = tutorial\_hour;

}

public int getPractical\_hour() {

return practical\_hour;

}

public void setPractical\_hour(int practical\_hour) {

this.practical\_hour = practical\_hour;

}

public int getLecture\_hour() {

return lecture\_hour;

}

public void setLecture\_hour(int lecture\_hour) {

this.lecture\_hour = lecture\_hour;

}

public int getCredit() {

return credit;

}

public void setCredit(int credit) {

this.credit = credit;

}

public Staff getStaff() {

return staff;

}

public void setStaff(Staff staff) {

this.staff = staff;

}

}

LEAVEFORM.JAVA

package com;

import javax.persistence.Entity;

import javax.persistence.Id;

@Entity

public class Leaveform {

@Id

private int id;

private String Leave\_startdate;

private String Leave\_enddate;

private String remarks;

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getLeave\_startdate() {

return Leave\_startdate;

}

public void setLeave\_startdate(String leave\_startdate) {

Leave\_startdate = leave\_startdate;

}

public String getLeave\_enddate() {

return Leave\_enddate;

}

public void setLeave\_enddate(String leave\_enddate) {

Leave\_enddate = leave\_enddate;

}

public String getRemarks() {

return remarks;

}

public void setRemarks(String remarks) {

this.remarks = remarks;

}

}

ATTENDANCE.JAVA

package com;

import javax.persistence.Entity;

import javax.persistence.Id;

@Entity

public class Attendance {

@Id

private int Total\_workinghours;

private int id;

private int No\_of\_hours\_present;

private double percentage;

public int getTotal\_workinghours() {

return Total\_workinghours;

}

public void setTotal\_workinghours(int total\_workinghours) {

Total\_workinghours = total\_workinghours;

}

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public int getNo\_of\_hours\_present() {

return No\_of\_hours\_present;

}

public void setNo\_of\_hours\_present(int no\_of\_hours\_present) {

No\_of\_hours\_present = no\_of\_hours\_present;

}

public double getPercentage() {

return percentage;

}

public void setPercentage(double percentage) {

this.percentage = percentage;

}

}

RESULT.JAVA

package com;

import javax.persistence.Entity;

import javax.persistence.Id;

@Entity

public class Result {

@Id

private int student\_id;

private String course\_name;

private String course\_id;

private double obtained\_mark;

public int getStudent\_id() {

return student\_id;

}

public void setStudent\_id(int student\_id) {

this.student\_id = student\_id;

}

public String getCourse\_name() {

return course\_name;

}

public void setCourse\_name(String course\_name) {

this.course\_name = course\_name;

}

public String getCourse\_id() {

return course\_id;

}

public void setCourse\_id(String course\_id) {

this.course\_id = course\_id;

}

public double getObtained\_mark() {

return obtained\_mark;

}

public void setObtained\_mark(double obtained\_mark) {

this.obtained\_mark = obtained\_mark;

}

}