LAB # 11:

Entity Relationship Diagram (ERD)

Objective (aim) of the experiment
To practice and implement ERD.

Scoring Rubrics for Lab 11:

S#	Task	Weightage	Obtained	Signature and Date
1	Identifying the appropriate entities correctly	20 %		
2	Identifying the appropriate Attributes of the entities correctly	10 %		
3	Identifying the appropriate Primary Keys of all entities correctly	10 %		
4	Identifying the appropriate Foreign Keys of all entities correctly	20 %		
5	Identifying the appropriate relationships among entities correctly	10 %		
6	Identifying the cardinalities correctly	30 %		
	Total marks obtained in this lab	**100%**	**%**	

Equipment used

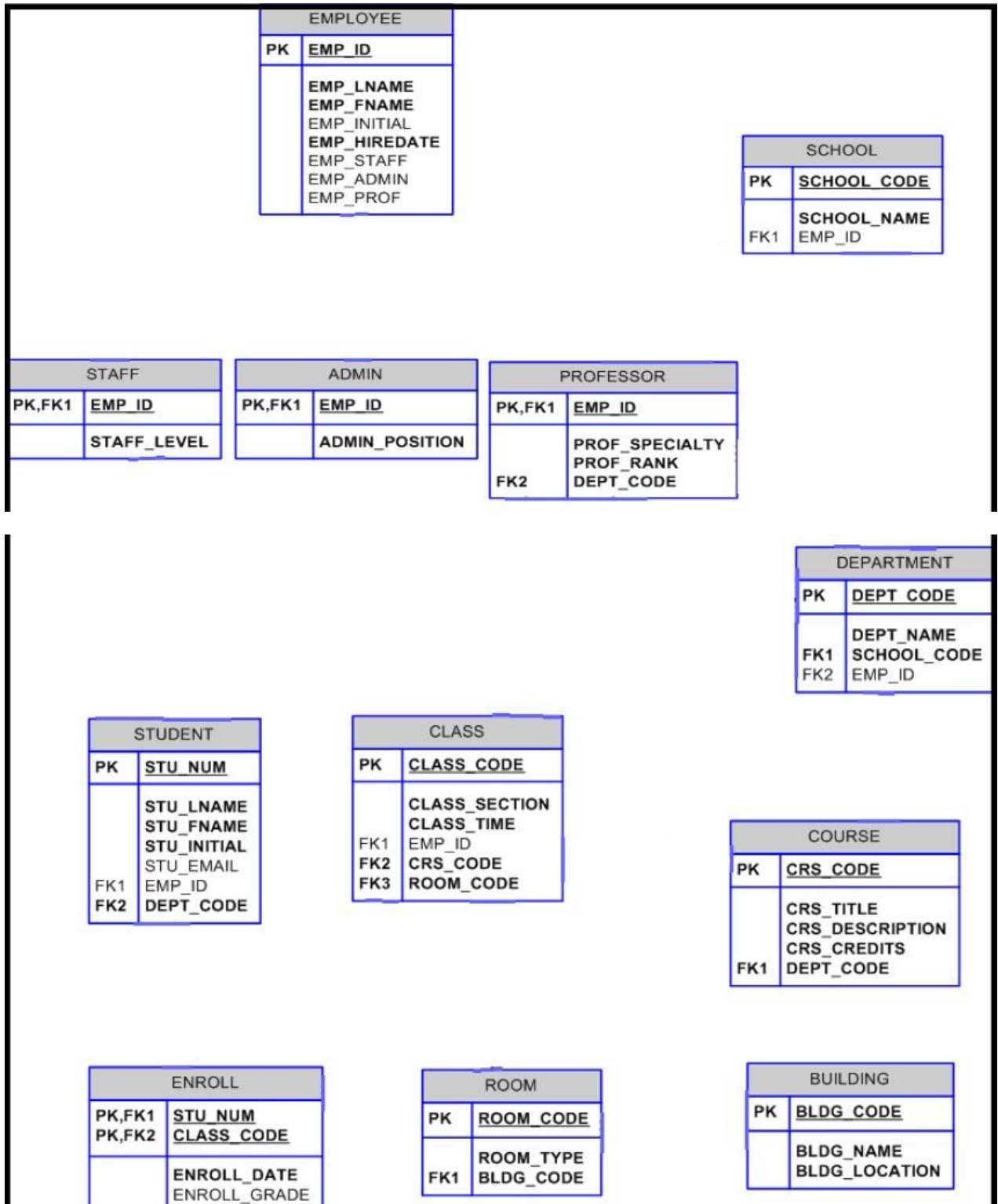| Sl. No.	Facilities Required	Quantity
1	System	1
2	Operating System	Windows 7
3	DBMS	Creately, ERWin, E-draw, Visio

TASKS

SCHOOL MANAGEMENT SOFTWARE

Using creately's ERD diagram template, make the entities as shown below, mention the relationship between the entities and also show cardinalities, using crow's foot notation.

Mention your roll-number in the diagram and email it so that print outs can be taken. After completing the activity return this activity paper with your roll-number mentioned to me.

EMPLOYEE

PK	EMP_ID
	EMP_LNAME
	EMP_FNAME
	EMP_INITIAL
	EMP_HIREDATE
	EMP_STAFF
	EMP_ADMIN
	EMP_PROF

SCHOOL

PK	SCHOOL_CODE
FK1	SCHOOL_NAME EMP_ID

STAFF

PK,FK1	EMP_ID
	STAFF_LEVEL

ADMIN

PK,FK1	EMP_ID
	ADMIN_POSITION

PROFESSOR

PK,FK1	EMP_ID
	PROF_SPECIALTY PROF_RANK
FK2	DEPT_CODE

DEPARTMENT

PK	DEPT_CODE
FK1	DEPT_NAME SCHOOL_CODE
FK2	EMP_ID

STUDENT

PK	STU_NUM
	STU_LNAME
	STU_FNAME
	STU_INITIAL
	STU_EMAIL
FK1	EMP_ID
FK2	DEPT_CODE

CLASS

PK	CLASS_CODE
	CLASS_SECTION
	CLASS_TIME
FK1	EMP_ID
FK2	CRS_CODE
FK3	ROOM_CODE

COURSE

PK	CRS_CODE
	CRS_TITLE
	CRS_DESCRIPTION
	CRS_CREDITS
FK1	DEPT_CODE

ENROLL

PK,FK1	STU_NUM
PK,FK2	CLASS_CODE
	ENROLL_DATE
	ENROLL_GRADE

ROOM

PK	ROOM_CODE
	ROOM_TYPE
FK1	BLDG_CODE

BUILDING

PK	BLDG_CODE
	BLDG_NAME
	BLDG_LOCATION

EXPECTED DELIVERABLE

A print out of the ERD.