ANUDIP FOUNDATION

A Project Report on

"ONLINE EXAMINATION SYSTEM"

By

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ONLINE EXAMINATION SYSTEM

Introducing our Java-based ONLINE EXAMINATION SYSTEM(RMS):

Efficiently manage every aspect of your educational assessments with our intuitive **Online Examination System (OES)**. From creating and scheduling exams to evaluating performance and generating insightful reports, our OES empowers educational institutions to streamline the examination process and deliver a seamless experience to both instructors and students.

Entities:

- **❖** Admin
- Student
- **❖** Instructor
- Department
- Course
- Topic
- Exam
- Question
- Answer

ATTRIBUTES OF ENTITIES:

1. Admin

- Admin_ID (Primary Key)
- Name
- Email
- Password
- Role

2. Student

- Student_ID (Primary Key)
- Name (First, Last)
- Email
- Address
- Exam_ID (foreign key)
- Course_id (foreign key)

3. Instructor

- Inst_ID (Primary Key)
- Name

- Email
- Course_ID (foreign key)
- Dept_ID (foreign key)

4. Department

- Dept_ID (Primary Key)
- Dept_Name

5. Course

- Course_ID (Primary Key)
- Course Name
- Description
- Inst_ID (Foreign key)
- Topic_ID (Foreign key)
- Student_ID (Foreign key)

6. Topics

- Topic_ID (Primary Key)
- Topic Name

7. Exam

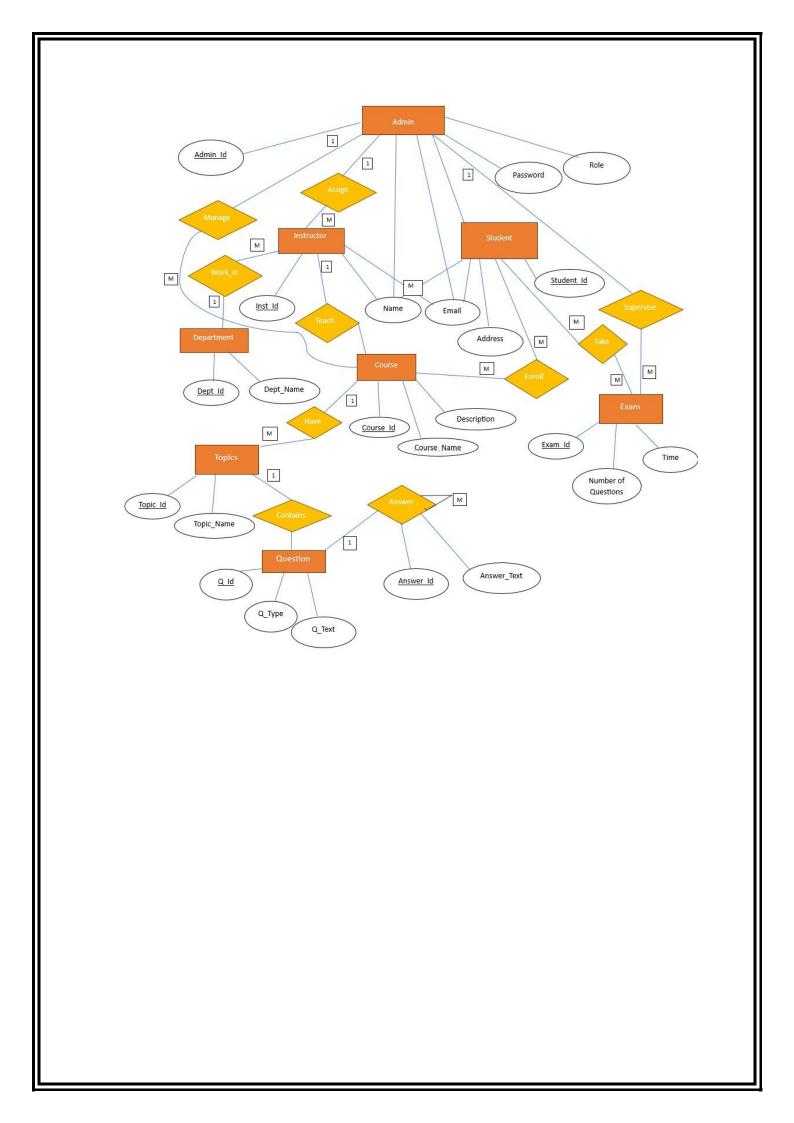
- Exam_ID (Primary Key)
- Time
- Number of Questions
- Admin_ID (foreign key)
- Student_ID (foreign key)

8. Question

- Q_ID (Primary Key)
- Question Text
- Question Type (MCQ, True/False)
- Associated with a Topic

9. Answer

- Answer_ID (Primary Key)
- Answer Text



CONCLUSION:

In summary, our Java-based Online Examination System (OES) is a comprehensive solution designed to simplify and enhance the entire examination lifecycle. By integrating advanced features with a user-friendly interface, it not only improves efficiency for administrators and instructors but also ensures a smooth and accessible experience for students. With OES, institutions can confidently transition to a smarter, more organized, and reliable way of conducting assessments.

DATABASE CREATION QUERY:

mysql> use online_examination_system;
Database changed
mysql> show tables;
++
Tables_in_online_examination_system
++
admins

```
answers
courses
departments
exams
instructors
questions
| student_courses
| student_exams
students
| topics
11 rows in set (0.00 sec)
mysql> create table admins;
ERROR 4028 (HY000): A table must have at least one visible column.
mysql> desc admins;
+----+
| Field | Type | Null | Key | Default | Extra
+----+
email | varchar (255) | NO | UNI | NULL |
     | varchar (255) | NO | | NULL |
name
password | varchar (255) | NO | NULL |
role | varchar (255) | NO | NULL |
+-----+
5 rows in set (0.00 sec)
mysql> desc answers;
      -+----+
| Field | Type | Null | Key | Default | Extra
```

```
+----+
answerText | varchar (255) | NO | NULL |
student id | int | YES | MUL | NULL |
 -----+
4 rows in set (0.00 sec)
mysql> desc courses;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
courseld int NO PRI NULL auto increment
courseName | varchar(255) | NO | UNI | NULL |
description varchar(255) NO NO NULL
t-----t
4 rows in set (0.00 sec)
mysql> desc departments;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| deptName | varchar(255) | NO | UNI | NULL |
+----+
2 rows in set (0.00 sec)
```

```
mysql> desc exams;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
examId | int | NO | PRI | NULL | auto increment |
| duration | int | NO | NULL | |
admin_id | int | YES | MUL | NULL |
+-----+
5 rows in set (0.00 sec)
mysql> desc instructors;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
email | varchar(255) | NO | UNI | NULL |
| dept_id | int | YES | MUL | NULL |
+-----+
4 rows in set (0.00 sec)
mysql> desc questions;
-----+
| Field | Type | Null | Key | Default | Extra |
-----+
```

```
| questionText | varchar(255) | NO | NULL |
| questionType | varchar(255) | NO | | NULL |
exam id | int | NO | MUL | NULL |
topic_id | int | YES | MUL | NULL |
+-----+
5 rows in set (0.00 sec)
mysql> desc student_courses;
·----+
| Field | Type | Null | Key | Default | Extra |
+----+
student_id | int | NO | MUL | NULL | |
course_id | int | NO | MUL | NULL |
+----+
2 rows in set (0.00 sec)
mysql> desc student_exams;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
exam_id | int | NO | MUL | NULL | |
| student_id | int | NO | MUL | NULL |
+----+
2 rows in set (0.00 sec)
mysql> desc students;
-----+
| Field | Type | Null | Key | Default | Extra |
```

```
-----+
| address | varchar(255) | NO | | NULL |
email | varchar(255) | NO | UNI | NULL |
| firstName | varchar(255) | NO | | NULL |
| lastName | varchar(255) | NO | NULL |
+----+
5 rows in set (0.00 sec)
mysql> desc topics;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| topicName | varchar(255) | NO | NULL |
+----+
3 rows in set (0.00 sec)
mysql>
```