School Portal App Database And Tables Descriptions

1. USERS(admin, student, teacher, parent) DATA OR ACCOUNT

2. CLASS

3. SUBJECT

4. ATTENDANCE

5. MARKS(exam, tests, homework scores)

6. HOMEWORK

7. SCHEDULE

8. COMPLAINT

9. QUIZ(serves as a quiz bank – teachers can add quizzes for their classes)

DATABASE SCHEMA FOR THE TABLES(in sql format)

MARKS

int:marksId pk(primary key)

int:userId(foreign key)(not blank, not null, cascade)

int:subjectId(foreign key)(not blank, not null, cascade)

int:examScore

int:test\_score1

int:test\_score2

int:test\_score3

int:homework\_score1

int:homework\_score2

int:homework\_score3

int:quiz\_score1

int:quiz\_score2

int:quiz\_score3

QUIZ

int:quizId pk(primary key)

int:classId(foreign key)(not blank, not null, cascade)

int:subjectId(foreign key)(not blank, not null, cascade)

text:question

varchar:option1

varchar:option2

varchar:option3

varchar:answer

COMPLAINT

int:complaintId pk(primary key)

int:userId(foreign key)(not blank, not null, cascade)

text:complaint

date:date

ATTENDANCE

int:attendanceId pk(primary key)

int:userId(foreign key)(not blank, not null, cascade)

date:attendance

date:absence

text:excuse

SCHEDULE

int:scheduleId pk(primary key)

int:userId(foreign key)(not blank, not null, cascade)

date:date

date:time

text:detail

HOMEWORK

int:homeworkId pk(primary key)

int:userId(foreign key)(not blank, not null, cascade)

submission:date

varchar:link(uploaded)

HOMEWORK OPERATIONS

1. File Operations

2. Uploading

3. Downloading

CLASS

int:classId pk(primary key)

varchar:classCode

varchar:className

SUBJECT

int:subjectId pk(primary key)

int:classId(foreign key)(not blank, not null, cascade)

varchar:subjectCode

varchar:subjectName

USER

int:userId pk(primary key)

int:classId(blank)

varchar:childId(blank, null, for students only)

varchar:role(teacher, student, admin, parent)

varchar:firstName

varchar:lastName

varchar:email

varchar:password

varchar(1):gender(M or F)

date:entrance

date:DOB(date of birth)

varchar:address

varchar(11):telephone

varchar:nationality

varchar:state

int(8):zipCode

USER CREATION PROCEDURE

User groupings and Permission and Authorization, Login, Logout, User Re-authentication(reset password) and Email Operations