**Database Management System**

*Case Study*

*Project Name: “****School Management System(SMS)”.***

**Aim**: UCP School is a multi specialty school that includes a number of Students, Teachers, Subjects, Time table, Fee and staff working in the school. Students come to the school and get lectures from the concerned teachers.

The purpose of this case study is to :

* design
* develop a database for the school
* To maintain the records of various Students Teachers, Subjects, Time table, Fee and staff in the school.

**Table Description:**

Following are the tables along with constraints used in School Management database project.

**(1)STUDENTS**: This table consists of details about the all students in the School. The information stored in this table includes ,***Student ID int PK***,***Student name VARCHAR (20)****,* ***Cnic/B-Form INT unique,Cell INT(15)***,***Gender CHAR***,***Permanent Address VARCHAR(20)***and ***Temporary Address VARCHAR(20).***

Constraint: Student ID will be unique for every student.

**(2)Teachers**: This table stores information about all the teachers teaching in the school and

the departments they are associated with. This table consists of details about the all Teachers in the School.The information stored in this table includes teachers details including personal details of teachers like ***Teacher ID int PK ,Teacher name VARCHAR(10 ), Cnic/B-Form INT unique ,Cell INT(15)***,  ***Gender CHAR, Permanent Address VARCHAR(20) ,Temporary Address VARCHAR(20) ,Salary DOUBLE ,Qualification VARCHAR(20), Employement history VARCHAR(20)***and ***date of joining DATE***, etc.

Constraint:Teacher ID is unique for each teacher.

**(3)Subjects**: This table stores names of all subjects taught in the school. The information stored in this table includes ***Urdu ,English,Maths,Science*** and ***Islamiat***.

Constraint:

**(4)Fee**: This table stores fee details of students in the school. The information stored in this table includes ***Monthly Tuition Fee DOUBLE , Discount INT , Sibling VARCHAR ,Extra Charges/Fine INT(10),Tax DOUBLE*** and ***Other Charges INT.***

**(5)Staff**: This table stores details of staff working in the school. The information stored in this table includes ***Staff id INT Unique ,Staff Name VARCHAR(20) , Gender char , Salary DOUBLE*** and ***Bonus INT.***

Constraint: