

hamaray bachay

Database Systems Project



MUHAMMAD MOIZ SAJID 19I-0692 SECTION C

TAHA RIZWAN 19I-0681 SECTION B

WAHAJ RAHMAN 19I-0473 SECTION A

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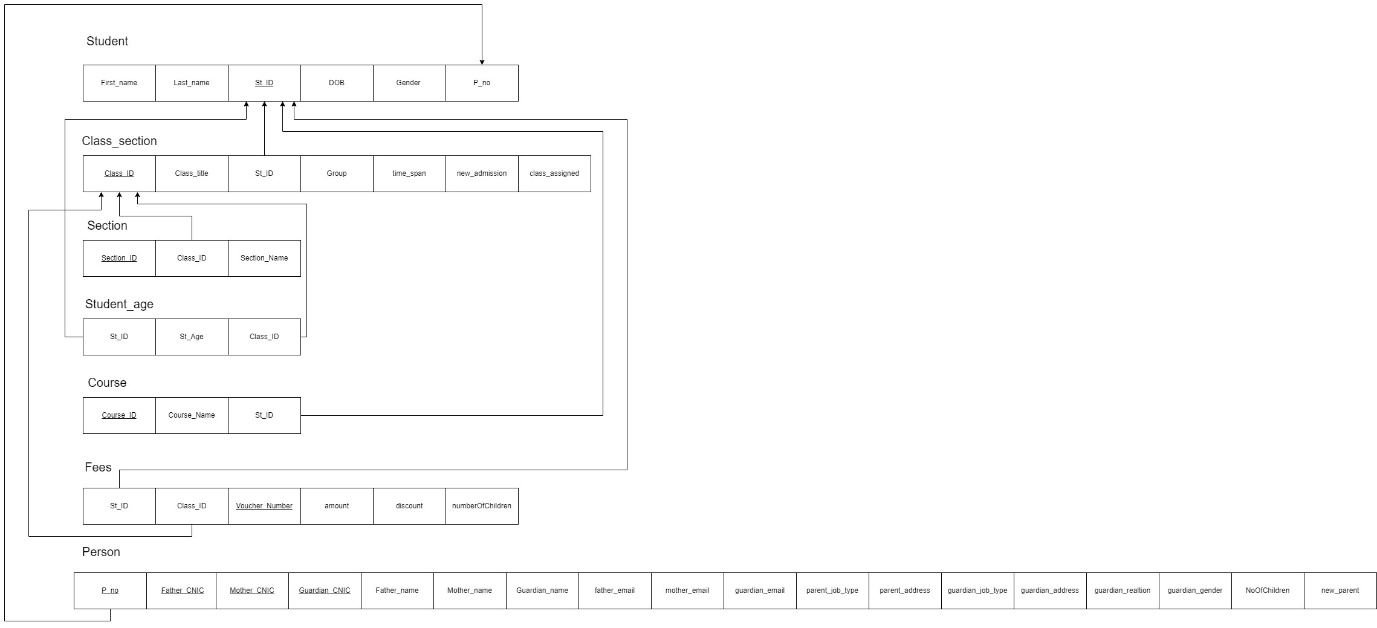
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# ER/EER Diagram

# 

# Relational Schema



# Description of all tables

1. Student: Stores the student data that includes the name, gender and date of birth, this table links with the ‘person’ and ‘class\_section’ tables to store further values.
2. Class\_section: This table stores the data for the class grade and the sections of each class, for each student. This table also stores the time span, the group (male or female section), ‘class assigned’ that tells whether the student had a recent change in their class and the new admission attribute that tells the status of the admission of the student.
3. Course: This class stores the course IDs and names for each student that takes those courses.
4. Person: Stores the parent/guardian info of each student. It gives the number of children for each parent/guardian. For the guardian it also tells the relation type. This table is linked with student and the class\_section table.
5. Fees: This table holds the information about the student’s fee with respect to their grade. This table also checks whether the student is given a discount based of, of need basis or if they have siblings exceeding a total of 3 students for their parents.
6. Section: This table holds the information about the sections each grade will have. For this purpose, it has a section column for each class ID.

# Datasets

--

-- Dumping data for table `Student`

--

`Student` (`St\_ID`, `first\_name`,`last\_name`,`St\_gender`,`date\_of\_birth`,`P\_no`,`dormant`) VALUES

('01','Syed','Kashif','Male','2007-03-23','1','1'),

('02','Atif','Munir','Male','2009-05-13','2','2'),

('03','Fatima','Munir','Female','2010-07-04','2','3'),

('04','Mahnoor','latif','Female','2011-09-15','4','2'),

('05','Khurram','latif','Male','2017-01-17','4','1'),

('06','Ali','Abbas','Male','2012-02-20','6','1'),

('07','Ayesha','Baig','Female','2013-04-25','7','1'),

('08','Zainab','Azeem','Female','2014-07-29','8','2'),

('09','Hammad','Azeem','Male','2015-08-30','8','4'),

('10','Javaria','Tahir','Female','2016-12-16','10','3');

--

-- Dumping data for table `Course`

--

`Course` (`Course\_ID`, `Course\_name`,`St\_ID`) VALUES

('C01','English','03'),

('C02','Urdu','01'),

('C02','Urdu','04'),

('C03','Science','05'),

('C04','Computer','07'),

('C05','History','06'),

('C06','Arts','02'),

('C06','Arts','10'),

('C07','Visual Arts','09'),

('C07','Visual Arts','08');

--

-- Dumping data for table `Class\_section`

--

`Class\_section` (`Class\_ID`,`P\_no`, `Class\_title`,`group`,`St\_ID`, `time\_span`,`new\_admission`,`class\_assigned`) VALUES

('CS01','2','Class of English','F','03','10-5-2019','old','new'),

('CS02','1','Class of Urdu','M','01','10-5-2019','old','old'),

('CS02','3','Class of Urdu','F','04','10-5-2019','old','new'),

('CS03','4','Class of Science','M','05','14-5-2021','old','new'),

('CS04','7','Class of Computer','F','07','16-5-2021','old','old'),

('CS05','6','Class of History','M','06','20-5-2020','old','new'),

('CS06','2','Class of Arts','M','02','10-7-2019','old','old'),

('CS06','10','Class of Arts','F','10','14-8-2021','new','old'),

('CS07','0','Class of Visual Arts','M','09','14-8-2021','new','old'),

('CS07','8','Class of Visual Arts','F','08','14-8-2021','new','new');

--

-- Dumping data for table `Student\_Age`

--

`Student\_Age` (`St\_ID`, `St\_Age`,`Class\_ID`) VALUES

('01','14','CS02'),

('02','12','CS06'),

('03','11','CS01'),

('04','10','CS02'),

('05','04','CS03'),

('06','09','CS05'),

('07','08','CS04'),

('08','07','CS07'),

('09','06','CS07'),

('10','05','CS06');

--

-- Dumping data for table `Section`

--

`Section`(`Class\_ID`, `Section\_ID`,`Section\_Name`) VALUES

('CS01','S01','A'),

('CS02','S02','A'),

('CS02','S03','B'),

('CS03','S04','A'),

('CS04','S05','A'),

('CS05','S06','A'),

('CS06','S07','A'),

('CS06','S08','B'),

('CS07','S09','A'),

('CS07','S10','B');

--

-- Dumping data for table `Person`

--

`Person` (`P\_no`,`Number\_of\_Children`,`Father\_Name`,`Mother\_Name`,`Father\_CNIC`,`Mother\_CNIC`,`Parent\_address`,`Father\_PhoneNo`,`Mother\_PhoneNo`,`Father\_Email`,`Mother\_Email`,`Parent\_jobtype`,`Guardian\_Name`,`Guardian\_CNIC`,`Guardian\_address`,`Guardian\_PhoneNo`,`Guardian\_Email`,`Guardian\_Relation`,`new\_parent`) VALUES

('1','1','Kashif Hamza','Hamda Syed','61101-4376543-1','61101-9234200-2','H.01 St.01 G-10/1 Islamabad','0308-5934123','0308-5234671','Kashif.Hamza@gmail.com','Hamda.Syed@gmail.com','Employee At AAJ News','Wahaj','61101-6182395-7','Wah Cantt','0315-5168892','wahajrahman@gmail.com','Uncle','old'),

('2','2','Munir Asim','Fatima Munir','61101-5271233-3','61101-8234652-4','H.11 St.11 G-10/2 Islamabad','0304-4834321','0304-5234671','Munir.Asim@gmail.com','Fatima.Munir@gmail.com','Employee At PakWheels','Mishal','51100-7612942-1','B-17 Islamabad','0321-7283965','mishal@yahoo.com','Aunt','old'),

('3','3','Umar Altaf','Ayesha Akram','61101-2173453-5','61101-7234908-6','H.21 St.12 G-10/3 Islamabad','0302-9734356','0302-5234671','Umar.Altaf@gmail.com','Ayesha.Akram@gmail.com','Employee At AAJ News','Ali','31100-7284912-4','Gulberg-3','0314-7283924','Ali230@hotmail.com','Family Friend','old'),

('4','2','Latif Khan','Zainab Khan','61101-4074373-7','61101-6234699-8','H.31 St.19 G-10/4 Islamabad','0336-3834098','0336-5234671','Latif.khatak@gmail.com','Zainab.tiktok@gmail.com','Youtuber','Qurat-ul-Ain','51100-3456789-2','G-13','0312-7839123','ainny555@gmail.com','Aunt','old'),

('5','2','Ehsan Khan','Rasheeda Khan','61101-3979873-9','61101-5234224-2','H.41 St.20 F-10/1 Islamabad','0304-7534032','0304-5234671','Ehsan.Khan@gmail.com','Rasheeda123@gmail.com','Producer At VOA','Sara','72900-8129412-8','G-10','0312-8889123','sara@hotmail.com','Family friend','old'),

('6','1','Abbas Amjad','Mahnoor Jeelani','61101-2872233-1','61101-4234229-4','H.51 St.32 F-10/2 Islamabad','0312-8434078','0312-5234671','Abbas.amjad@gmail.com','Mahnoor003@gmail.com','High Court Judge','Zia','87261-2837194-0','G-12','0300-1414714','ziahakeem@gmail.com','father in law','old'),

('7','4','Mirza Abdul Baig','Fajr Baig','61101-1777763-3','61101-3234231-6','H.61 St.17 F-10/3 Islamabad','0301-1334908','0301-5234671','Mirza.Baig@gmail.com','Fajr123@gmail.com','Unemployed','Aman','56000-6127481-2','Naval Ankrage','0312-6273842','amanshah@yahoo.com','First Cousine','old'),

('8','3','Azeem Hasan','Maria Abbas','61101-5671223-5','61101-5234666-8','H.71 St.18 F-10/4 Islamabad','0309-4234254','0309-5234671','Azeem.hasan@gmail.com','Maria.abbas@gmail.com','Employee At FAST(NUCES)','Moiz','51100-3105618-4','G-13','0312-8681969','moiz@gmail.com','First Cousine','new'),

('9','2','Umar ibn Khalid','Khateja Khan','61101-6576543-7','61101-4234997-2','H.81 St.23 E-11/1 Islamabad','0320-5134987','0320-5234671','umar.khalid@gmail.com','itsKhateja@gmail.com','Staff member of Hamaray Bachey','Taha','51100-2783923-2','G-10','0312-4673829','taha@hotmail.com','Uncle','new'),

('10','3','Tahir Abbas','Bisma Batool','61101-7474323-9','61101-3234999-4','H.91 St.21 G-11/2 Islamabad','0308-6034009','0308-5234671','tahir.amaze@gmail.com','bisma.abbas@gmail.com','Employee At GEO News','Maryam','61100-2345678-0','E-11','0331-1234123','Maryam@yahoo.com','sister in law','new');

-- --------------------------------------------------------

--

-- Dumping data for table `Fees`

--

`Fees`(`St\_ID`,`Class\_ID`, `voucherNumber`,`amount`,`discount`,`numberofchildren`) VALUES

('St01','CS02','123056783','10000','0','1'),

('St02','CS06','223156780','10000','0','2'),

('St03','CS01','323256781','10000','30','3'),

('St04','CS02','423356783','10000','0','2'),

('St05','CS03','523456784','10000','0','2'),

('St06','CS05','623556785','10000','0','1'),

('St07','CS04','723656786','10000','50','4'),

('St08','CS07','823756787','10000','30','3'),

('St09','CS07','923856788','10000','100','2'),

('St10','CS06','023956789','10000','0','3');

# SQL statements used to create tables.

-- phpMyAdmin SQL Dump

-- version 5.0.2

-- https://www.phpmyadmin.net/

--

-- Host: 127.0.0.1:3306

-- Generation Time: Sep 28, 2021 at 04:31 AM

-- Server version: 5.7.31

-- PHP Version: 7.3.21

SET SQL\_MODE = "NO\_AUTO\_VALUE\_ON\_ZERO";

START TRANSACTION;

SET time\_zone = "+00:00";

/\*!40101 SET @OLD\_CHARACTER\_SET\_CLIENT=@@CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET @OLD\_CHARACTER\_SET\_RESULTS=@@CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET @OLD\_COLLATION\_CONNECTION=@@COLLATION\_CONNECTION \*/;

/\*!40101 SET NAMES utf8mb4 \*/;

DROP TABLE IF EXISTS `Student`;

CREATE TABLE IF NOT EXISTS `Student` (

  `St\_ID` INTEGER UNSIGNED AUTO\_INCREMENT NOT NULL COMMENT 'TRIAL',

  `first\_name` varchar(100) DEFAULT NULL COMMENT 'TRIAL',

  `last\_name` varchar(100) DEFAULT NULL COMMENT 'TRIAL',

  `St\_gender` varchar(100) DEFAULT NULL COMMENT 'TRIAL',

  `date\_of\_birth` varchar(100) DEFAULT NULL COMMENT 'TRIAL',

  `P\_no` INTEGER NOT NULL COMMENT 'TRIAL',

  `dormant` INTEGER NOT NULL,

   PRIMARY KEY (`St\_ID`),

   FOREIGN KEY (`P\_no`) REFERENCES `person`

) ENGINE=MyISAM DEFAULT CHARSET=utf8 COMMENT='TRIAL';

--

-- Table structure for table `Course`

--

DROP TABLE IF EXISTS `Course`;

CREATE TABLE IF NOT EXISTS `Course` (

  `Course\_ID` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Course\_name` varchar(100) DEFAULT NULL COMMENT 'TRIAL',

  `St\_ID` INTEGER UNSIGNED AUTO\_INCREMENT NOT NULL COMMENT 'TRIAL',

  KEY `jhist\_Course\_ix` (`Course\_ID`),

  FOREIGN KEY (`St\_ID`) REFERENCES `Student`

) ENGINE=MyISAM DEFAULT CHARSET=utf8 COMMENT='TRIAL';

-- --------------------------------------------------------

DROP TABLE IF EXISTS `Class\_section`;

CREATE TABLE IF NOT EXISTS `Class\_section` (

  `Class\_ID` varchar(100) NOT NULL COMMENT 'TRIAL',

  `P\_no` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Class\_title` varchar(100) DEFAULT NULL COMMENT 'TRIAL',

  `group` varchar (100) NOT NULL COMMENT 'TRIAL',

  `St\_ID` INTEGER UNSIGNED AUTO\_INCREMENT NOT NULL COMMENT 'TRIAL',

  `time\_span` varchar(100) NOT NULL COMMENT 'Admission time',

 `new\_admission` varchar(100) NOT NULL COMMENT 'Check',

`class\_assigned` varchar(100) NOT NULL COMMENT 'Check',

  KEY `jhist\_class\_ix` (`Class\_ID`),

  FOREIGN KEY(`St\_ID`) REFERENCES `Student`,

  FOREIGN KEY(`P\_no`) REFERENCES `Person`

) ENGINE=MyISAM DEFAULT CHARSET=utf8 COMMENT='TRIAL';

-- --------------------------------------------------------

--

-- Table structure for table `Student\_Age`

--

DROP TABLE IF EXISTS `Student\_Age`;

CREATE TABLE IF NOT EXISTS `Student\_Age` (

  `St\_ID` INTEGER UNSIGNED AUTO\_INCREMENT NOT NULL COMMENT 'TRIAL',

  `St\_Age` INTEGER DEFAULT NULL COMMENT 'TRIAL',

  `Class\_ID` varchar (100) NOT NULL COMMENT 'TRIAL',

  PRIMARY KEY (`St\_ID`),

  KEY `jhist\_class\_ix` (`Class\_ID`),

  FOREIGN KEY(`St\_ID`) REFERENCES `Student`,

  FOREIGN KEY(`Class\_ID`) REFERENCES `Class\_section`

) ENGINE=MyISAM DEFAULT CHARSET=utf8 COMMENT='TRIAL';

-- --------------------------------------------------------

--

-- Table structure for table `Section`

--

DROP TABLE IF EXISTS `Section`;

CREATE TABLE IF NOT EXISTS `Section` (

  `Class\_ID` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Section\_ID` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Section\_Name` varchar (100) DEFAULT NULL COMMENT 'TRIAL',

   PRIMARY KEY(`Section\_ID`),

   KEY `jhist\_class\_ix` (`Class\_ID`),

   FOREIGN KEY (`Class\_ID`) REFERENCES `Class\_section`

) ENGINE=MyISAM DEFAULT CHARSET=utf8 COMMENT='TRIAL';

-- --------------------------------------------------------

--

-- Table structure for table `Person`

--

DROP TABLE IF EXISTS `Person`;

CREATE TABLE IF NOT EXISTS `Person` (

  `P\_no` INTEGER NOT NULL COMMENT 'TRIAL',

  `Number\_of\_Children` INTEGER NOT NULL COMMENT 'TRIAL',

  `Father\_Name` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Mother\_Name` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Father\_CNIC` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Mother\_CNIC` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Parent\_address` varchar(200) NOT NULL COMMENT 'TRIAL',

  `Father\_PhoneNo` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Mother\_PhoneNo` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Father\_Email` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Mother\_Email` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Parent\_jobtype` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Guardian\_Name` varchar(100) DEFAULT NULL COMMENT 'TRIAL',

  `Guardian\_CNIC` varchar(100) DEFAULT NULL COMMENT 'TRIAL',

  `Guardian\_address` varchar(200) DEFAULT NULL COMMENT 'TRIAL',

  `Guardian\_PhoneNo` varchar(100) DEFAULT NULL COMMENT 'TRIAL',

  `Guardian\_Email` varchar(100) DEFAULT NULL COMMENT 'TRIAL',

  `Guardian\_Relation` varchar(100) DEFAULT NULL COMMENT 'TRIAL',

  `new\_parent` varchar(100) NOT NULL,

   PRIMARY KEY(`P\_no`,`Father\_CNIC`,`Mother\_CNIC`),

   UNIQUE(`Mother\_Email`,`Guardian\_Email`)

) ENGINE=MyISAM DEFAULT CHARSET=utf8 COMMENT='TRIAL';

-- --------------------------------------------------------

--

-- Table structure for table `Fees`

--

DROP TABLE IF EXISTS `Fees`;

CREATE TABLE IF NOT EXISTS `Fees` (

  `St\_ID` varchar(100) NOT NULL COMMENT 'TRIAL',

  `Class\_ID` varchar(100) NOT NULL COMMENT 'TRIAL',

  `voucherNumber` varchar(100) NOT NULL COMMENT 'TRIAL',

  `amount` double (8,0) DEFAULT NULL COMMENT 'TRIAL',

  `discount` INTEGER DEFAULT NULL COMMENT 'TRIAL',

  `numberofchildren` INTEGER NOT NULL COMMENT 'TRIAL',

   PRIMARY KEY(`St\_ID`,`voucherNumber`),

   FOREIGN KEY (`Class\_ID`) REFERENCES `Class\_section`,

   FOREIGN KEY (`numberofchildren`) REFERENCES `Person`

) ENGINE=MyISAM DEFAULT CHARSET=utf8 COMMENT='TRIAL';

# SQL statements used to populate tables (insert statements).

--

-- Dumping data for table `Student`

--

INSERT INTO `Student` (`St\_ID`, `first\_name`,`last\_name`,`St\_gender`,`date\_of\_birth`,`P\_no`,`dormant`) VALUES

('01','Syed','Kashif','Male','2007-03-23','1','1'),

('02','Atif','Munir','Male','2009-05-13','2','2'),

('03','Fatima','Munir','Female','2010-07-04','2','3'),

('04','Mahnoor','latif','Female','2011-09-15','4','2'),

('05','Khurram','latif','Male','2017-01-17','4','1'),

('06','Ali','Abbas','Male','2012-02-20','6','1'),

('07','Ayesha','Baig','Female','2013-04-25','7','1'),

('08','Zainab','Azeem','Female','2014-07-29','8','2'),

('09','Hammad','Azeem','Male','2015-08-30','8','4'),

('10','Javaria','Tahir','Female','2016-12-16','10','3');

--

-- Dumping data for table `Course`

--

INSERT INTO `Course` (`Course\_ID`, `Course\_name`,`St\_ID`) VALUES

('C01','English','03'),

('C02','Urdu','01'),

('C02','Urdu','04'),

('C03','Science','05'),

('C04','Computer','07'),

('C05','History','06'),

('C06','Arts','02'),

('C06','Arts','10'),

('C07','Visual Arts','09'),

('C07','Visual Arts','08');

--

-- Dumping data for table `Class\_section`

--

INSERT INTO `Class\_section` (`Class\_ID`,`P\_no`, `Class\_title`,`group`,`St\_ID`, `time\_span`,`new\_admission`,`class\_assigned`) VALUES

('CS01','2','Class of English','F','03','10-5-2019','old','new'),

('CS02','1','Class of Urdu','M','01','10-5-2019','old','old'),

('CS02','3','Class of Urdu','F','04','10-5-2019','old','new'),

('CS03','4','Class of Science','M','05','14-5-2021','old','new'),

('CS04','7','Class of Computer','F','07','16-5-2021','old','old'),

('CS05','6','Class of History','M','06','20-5-2020','old','new'),

('CS06','2','Class of Arts','M','02','10-7-2019','old','old'),

('CS06','10','Class of Arts','F','10','14-8-2021','new','old'),

('CS07','0','Class of Visual Arts','M','09','14-8-2021','new','old'),

('CS07','8','Class of Visual Arts','F','08','14-8-2021','new','new');

--

-- Dumping data for table `Student\_Age`

--

INSERT INTO `Student\_Age` (`St\_ID`, `St\_Age`,`Class\_ID`) VALUES

('01','14','CS02'),

('02','12','CS06'),

('03','11','CS01'),

('04','10','CS02'),

('05','04','CS03'),

('06','09','CS05'),

('07','08','CS04'),

('08','07','CS07'),

('09','06','CS07'),

('10','05','CS06');

--

-- Dumping data for table `Section`

--

INSERT INTO `Section`(`Class\_ID`, `Section\_ID`,`Section\_Name`) VALUES

('CS01','S01','A'),

('CS02','S02','A'),

('CS02','S03','B'),

('CS03','S04','A'),

('CS04','S05','A'),

('CS05','S06','A'),

('CS06','S07','A'),

('CS06','S08','B'),

('CS07','S09','A'),

('CS07','S10','B');

--

-- Dumping data for table `Person`

--

INSERT INTO `Person` (`P\_no`,`Number\_of\_Children`,`Father\_Name`,`Mother\_Name`,`Father\_CNIC`,`Mother\_CNIC`,`Parent\_address`,`Father\_PhoneNo`,`Mother\_PhoneNo`,`Father\_Email`,`Mother\_Email`,`Parent\_jobtype`,`Guardian\_Name`,`Guardian\_CNIC`,`Guardian\_address`,`Guardian\_PhoneNo`,`Guardian\_Email`,`Guardian\_Relation`,`new\_parent`) VALUES

('1','1','Kashif Hamza','Hamda Syed','61101-4376543-1','61101-9234200-2','H.01 St.01 G-10/1 Islamabad','0308-5934123','0308-5234671','Kashif.Hamza@gmail.com','Hamda.Syed@gmail.com','Employee At AAJ News','Wahaj','61101-6182395-7','Wah Cantt','0315-5168892','wahajrahman@gmail.com','Uncle','old'),

('2','2','Munir Asim','Fatima Munir','61101-5271233-3','61101-8234652-4','H.11 St.11 G-10/2 Islamabad','0304-4834321','0304-5234671','Munir.Asim@gmail.com','Fatima.Munir@gmail.com','Employee At PakWheels','Mishal','51100-7612942-1','B-17 Islamabad','0321-7283965','mishal@yahoo.com','Aunt','old'),

('3','3','Umar Altaf','Ayesha Akram','61101-2173453-5','61101-7234908-6','H.21 St.12 G-10/3 Islamabad','0302-9734356','0302-5234671','Umar.Altaf@gmail.com','Ayesha.Akram@gmail.com','Employee At AAJ News','Ali','31100-7284912-4','Gulberg-3','0314-7283924','Ali230@hotmail.com','Family Friend','old'),

('4','2','Latif Khan','Zainab Khan','61101-4074373-7','61101-6234699-8','H.31 St.19 G-10/4 Islamabad','0336-3834098','0336-5234671','Latif.khatak@gmail.com','Zainab.tiktok@gmail.com','Youtuber','Qurat-ul-Ain','51100-3456789-2','G-13','0312-7839123','ainny555@gmail.com','Aunt','old'),

('5','2','Ehsan Khan','Rasheeda Khan','61101-3979873-9','61101-5234224-2','H.41 St.20 F-10/1 Islamabad','0304-7534032','0304-5234671','Ehsan.Khan@gmail.com','Rasheeda123@gmail.com','Producer At VOA','Sara','72900-8129412-8','G-10','0312-8889123','sara@hotmail.com','Family friend','old'),

('6','1','Abbas Amjad','Mahnoor Jeelani','61101-2872233-1','61101-4234229-4','H.51 St.32 F-10/2 Islamabad','0312-8434078','0312-5234671','Abbas.amjad@gmail.com','Mahnoor003@gmail.com','High Court Judge','Zia','87261-2837194-0','G-12','0300-1414714','ziahakeem@gmail.com','father in law','old'),

('7','4','Mirza Abdul Baig','Fajr Baig','61101-1777763-3','61101-3234231-6','H.61 St.17 F-10/3 Islamabad','0301-1334908','0301-5234671','Mirza.Baig@gmail.com','Fajr123@gmail.com','Unemployed','Aman','56000-6127481-2','Naval Ankrage','0312-6273842','amanshah@yahoo.com','First Cousine','old'),

('8','3','Azeem Hasan','Maria Abbas','61101-5671223-5','61101-5234666-8','H.71 St.18 F-10/4 Islamabad','0309-4234254','0309-5234671','Azeem.hasan@gmail.com','Maria.abbas@gmail.com','Employee At FAST(NUCES)','Moiz','51100-3105618-4','G-13','0312-8681969','moiz@gmail.com','First Cousine','new'),

('9','2','Umar ibn Khalid','Khateja Khan','61101-6576543-7','61101-4234997-2','H.81 St.23 E-11/1 Islamabad','0320-5134987','0320-5234671','umar.khalid@gmail.com','itsKhateja@gmail.com','Staff member of Hamaray Bachey','Taha','51100-2783923-2','G-10','0312-4673829','taha@hotmail.com','Uncle','new'),

('10','3','Tahir Abbas','Bisma Batool','61101-7474323-9','61101-3234999-4','H.91 St.21 G-11/2 Islamabad','0308-6034009','0308-5234671','tahir.amaze@gmail.com','bisma.abbas@gmail.com','Employee At GEO News','Maryam','61100-2345678-0','E-11','0331-1234123','Maryam@yahoo.com','sister in law','new');

-- --------------------------------------------------------

--

-- Dumping data for table `Fees`

--

INSERT INTO `Fees`(`St\_ID`,`Class\_ID`, `voucherNumber`,`amount`,`discount`,`numberofchildren`) VALUES

('St01','CS02','123056783','10000','0','1'),

('St02','CS06','223156780','10000','0','2'),

('St03','CS01','323256781','10000','30','3'),

('St04','CS02','423356783','10000','0','2'),

('St05','CS03','523456784','10000','0','2'),

('St06','CS05','623556785','10000','0','1'),

('St07','CS04','723656786','10000','50','4'),

('St08','CS07','823756787','10000','30','3'),

('St09','CS07','923856788','10000','100','2'),

('St10','CS06','023956789','10000','0','3');

# SQL statements as the answer to the needed 15 queries

QUERY 1:

CREATE PROCEDURE FindStudents() SELECT `St\_ID`,`first\_name`,`last\_name` FROM `student` END

<--------------------------------->

QUERY 2:

CREATE PROCEDURE FindM\_Spouse()

SELECT `Mother\_Name`,`Father\_Name` FROM `person`

WHERE `Father\_Name` IS NOT NULL

END

<--------------------------------->

QUERY 3:

CREATE PROCEDURE GuardianList()

SELECT

    COUNT(p.Guardian\_CNIC) AS GuardianList,

    p.Guardian\_Relation,

    s.first\_name,

    s.last\_name

FROM

    person p,

    student s

WHERE

    p.`Sr\_No.` = s.St\_ID

GROUP BY p.Guardian\_Relation

<---------------------------------->

QUERY 4:

CREATE PROCEDURE ShowParents\_Children()

SELECT

    p.Father\_Name, p.Mother\_Name, s.first\_name, s.last\_name

FROM

    student s, person p

WHERE

    p.St\_ID = s.St\_ID

<--------------------------------->

QUERY 5:

CREATE PROCEDURE studentSiblings()

SELECT

    COUNT(s.St\_ID),

    s.P\_no,

    c.Class\_ID

FROM

    student s,

    person p,

    class\_section c

WHERE

    p.P\_no = s.P\_no

    AND

    s.St\_ID = c.St\_ID

GROUP BY

    c.Class\_ID;

    END

<-------------------------------------------->

Query 6:

CREATE PROCEDURE ShowNewClass()

SELECT

    c.St\_ID,

    c.time\_span,

    c.new\_admission,

    c.class\_assigned,

    s.first\_name,

    s.last\_name

FROM

    `class\_section` c,

    `student` s

WHERE

    time\_span = '14-8-2021' AND class\_assigned = 'new' AND c.St\_ID = s.St\_ID;

    END

<-------------------------------------------->

Query 7:

CREATE PROCEDURE newStudent(IN time\_span varchar(100), IN new\_admission varchar(100))

SELECT s.first\_name, s.last\_name FROM student s, class\_section c WHERE c.St\_ID = s.St\_ID AND    c.time\_span = time\_span AND c.new\_admission = new\_admission;

END

<-------------------------------------------->

QUERY 8:

CREATE PROCEDURE newParents()

SELECT DISTINCT

    p.Father\_Name,

    p.Mother\_Name,

    s.P\_no,

    s.first\_name,

    s.last\_name

FROM

    person p,

    student s,

    class\_section c

WHERE

    p.P\_no = s.P\_no

    AND

    c.time\_span = '10-5-2019'

    AND

    p.new\_parent = 'new';

    END

QUERY 9:

CREATE PROCEDURE ShowP\_Introducers()

SELECT DISTINCT

    DATE\_FORMAT(FROM\_DAYS(DATEDIFF(CURDATE(),s.date\_of\_birth)), '%Y')+0 AS "age",

    s.P\_no,

    s.first\_name,

    s.last\_name,

    c.Class\_ID,

    co.Course\_name,

    p.`Father\_Name`,

    p.Mother\_Name

FROM

    student s,

    person p,

    class\_section c,

    course co

WHERE

    p.P\_no = s.P\_no

    AND

    s.St\_ID = c.St\_ID

    AND

    DATE\_FORMAT(FROM\_DAYS(DATEDIFF(CURDATE(),s.date\_of\_birth)), '%Y')+0 < 5

    AND

    co.St\_ID = s.St\_ID

GROUP BY

    c.Class\_ID;

    END

<------------------------------------------->

QUERY 12:

SELECT

    c.Class\_ID,

    COUNT(S.St\_ID) AS NoOfStudents

FROM

    student s,

    class\_section c,

    person p

WHERE

    p.P\_no = s.P\_no AND s.St\_ID = c.St\_ID AND s.St\_gender IN(

    SELECT

        s.St\_gender

    FROM

        student s

    WHERE

        s.St\_gender = 'Female' OR s.St\_gender = 'Male'

)

GROUP BY

    c.Class\_ID

<-------------------------------------------->

QUERY 13:

CREATE TRIGGER inactiveStudents

AFTER INSERT

ON student FOR EACH ROW

UPDATE student SET dormant = dormant +1

END

SELECT

    s.St\_ID,

    s.first\_name,

    s.last\_name,

    s.dormant

FROM

    student s

<-------------------------------------------->

QUERY 14:

SELECT

    p.P\_no,

    p.Father\_Name,

    p.Mother\_Name,

    p.Guardian\_Name,

    p.Father\_CNIC,

    p.Mother\_CNIC,

    p.Guardian\_CNIC,

    s.St\_ID,

    s.first\_name,

    s.last\_name,

    s.St\_gender

FROM

    student s,

    person p

WHERE

    s.P\_no = P.P\_no

QUERY 15:

SELECT

    p.P\_no,

    s.St\_ID,

    s.first\_name,

    s.last\_name,

    c.Class\_ID

FROM

    student s,

    class\_section c,

    person p

WHERE

    p.P\_no = s.P\_no AND s.St\_ID = c.St\_ID

ORDER BY p.P\_no ASC

# Other

Assumption:

* The person enrolling the student can manually select the class they want to enroll the student into.