**New Zealand Youth Rugby Union**

**Schema diagram (Physical model) :**

A screenshot of a cell phone

Description automatically generated

**Jhonr1\_schema.sql :**

DROP DATABASE IF EXISTS jhonr1\_rugby;

CREATE DATABASE jhonr1\_rugby;

USE jhonr1\_rugby;

CREATE TABLE persons(

id BIGINT AUTO\_INCREMENT PRIMARY KEY,

first\_name VARCHAR(25) NOT NULL,

last\_name VARCHAR(25) NOT NULL,

gender VARCHAR(10) NOT NULL,

dob DATE NOT NULL,

email VARCHAR(100),

photo BLOB

)ENGINE=INNODB;

CREATE TABLE guardians(

caregiver\_id BIGINT,

dependant\_id BIGINT,

FOREIGN KEY (caregiver\_id) REFERENCES persons(id) ON DELETE RESTRICT,

FOREIGN KEY (dependant\_id) REFERENCES persons(id) ON DELETE RESTRICT

)ENGINE=INNODB;

CREATE TABLE addresses(

id BIGINT AUTO\_INCREMENT PRIMARY KEY,

door\_number INT NOT NULL,

street\_name VARCHAR(40) NOT NULL,

suburb VARCHAR(30) NOT NULL,

city VARCHAR(30) NOT NULL,

postal\_code INT NOT NULL

)ENGINE=INNODB;

CREATE TABLE person\_address(

person\_id BIGINT NOT NULL,

address\_id BIGINT NOT NULL,

FOREIGN KEY (person\_id) REFERENCES persons(id) ON DELETE RESTRICT,

FOREIGN KEY (address\_id) REFERENCES addresses(id) ON DELETE RESTRICT

)ENGINE=INNODB;

CREATE TABLE telephones(

id BIGINT AUTO\_INCREMENT PRIMARY KEY,

phone\_number VARCHAR(20) NOT NULL,

phone\_type VARCHAR(20)

)ENGINE=INNODB;

CREATE TABLE person\_telephone(

person\_id BIGINT NOT NULL,

telephone\_id BIGINT NOT NULL,

FOREIGN KEY (person\_id) REFERENCES persons(id) ON DELETE RESTRICT,

FOREIGN KEY (telephone\_id) REFERENCES telephones(id) ON DELETE RESTRICT

)ENGINE=INNODB;

CREATE TABLE schools(

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

address VARCHAR(100) NOT NULL,

telephone VARCHAR(25) NOT NULL

)ENGINE=INNODB;

CREATE TABLE enrollments(

id BIGINT AUTO\_INCREMENT PRIMARY KEY,

school\_id INT NOT NULL,

person\_id BIGINT NOT NULL,

student\_year TINYINT,

start\_date DATE NOT NULL,

end\_date DATE,

FOREIGN KEY (person\_id) REFERENCES persons(id) ON DELETE RESTRICT,

FOREIGN KEY (school\_id) REFERENCES schools(id) ON DELETE RESTRICT

)ENGINE=INNODB;

CREATE TABLE coaches(

id INT AUTO\_INCREMENT PRIMARY KEY,

person\_id BIGINT NOT NULL,

start\_date DATE NOT NULL,

end\_date DATE,

FOREIGN KEY (person\_id) REFERENCES persons(id) ON DELETE RESTRICT

)ENGINE=INNODB;

CREATE TABLE qualifications(

id TINYINT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(30) NOT NULL

)ENGINE=INNODB;

CREATE TABLE coach\_qualification(

qualification\_id TINYINT NOT NULL,

coach\_id INT NOT NULL,

FOREIGN KEY (qualification\_id) REFERENCES qualifications(id) ON DELETE RESTRICT,

FOREIGN KEY (coach\_id) REFERENCES coaches(id) ON DELETE RESTRICT

)ENGINE=INNODB;

CREATE TABLE teams(

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(25) NOT NULL,

age TINYINT NOT NULL,

team\_year YEAR NOT NULL,

coach\_id INT NOT NULL,

FOREIGN KEY (coach\_id) REFERENCES coaches(id) ON DELETE RESTRICT

)ENGINE=INNODB;

CREATE TABLE players(

enrollment\_id BIGINT NOT NULL,

team\_id INT NOT NULL,

FOREIGN KEY (enrollment\_id) REFERENCES enrollments(id) ON DELETE RESTRICT,

FOREIGN KEY (team\_id) REFERENCES teams(id) ON DELETE RESTRICT

)ENGINE=INNODB;

**Jhonr1\_data.sql :**

USE jhonr1\_rugby;

INSERT INTO addresses (door\_number, street\_name, suburb, city, postal\_code) VALUES

('1', 'Forth street', 'North dunedin', 'Dunedin', 9016),

('2', 'Forth street', 'North dunedin', 'Dunedin', 9016),

('3', 'Forth street', 'North dunedin', 'Dunedin', 9016),

('4', 'Forth street', 'North dunedin', 'Dunedin', 9016),

('5', 'Forth street', 'North dunedin', 'Dunedin', 9016),

('6', 'Forth street', 'North dunedin', 'Dunedin', 9016),

('7', 'Forth street', 'North dunedin', 'Dunedin', 9016),

('8', 'Forth street', 'North dunedin', 'Dunedin', 9016),

('9', 'Forth street', 'North dunedin', 'Dunedin', 9016),

('10', 'Forth street', 'North dunedin', 'Dunedin', 9016),

('1', 'union street', 'North dunedin', 'Dunedin', 9016),

('2', 'union street', 'North dunedin', 'Dunedin', 9016),

('3', 'union street', 'North dunedin', 'Dunedin', 9016),

('4', 'union street', 'North dunedin', 'Dunedin', 9016),

('5', 'union street', 'North dunedin', 'Dunedin', 9016),

('6', 'union street', 'North dunedin', 'Dunedin', 9016),

('7', 'union street', 'North dunedin', 'Dunedin', 9016),

('8', 'union street', 'North dunedin', 'Dunedin', 9016),

('9', 'union street', 'North dunedin', 'Dunedin', 9016),

('10', 'union street', 'North dunedin', 'Dunedin', 9016),

('1', 'clyde street', 'North dunedin', 'Dunedin', 9016),

('2', 'clyde street', 'North dunedin', 'Dunedin', 9016),

('3', 'clyde street', 'North dunedin', 'Dunedin', 9016),

('4', 'clyde street', 'North dunedin', 'Dunedin', 9016),

('5', 'clyde street', 'North dunedin', 'Dunedin', 9016),

('6', 'clyde street', 'North dunedin', 'Dunedin', 9016);

INSERT INTO persons (first\_name, last\_name, gender, dob, email) VALUES

('Arianna', 'Monahan', 'Male', '1980-09-27', 'Meaghan\_Greenholt@sabryna.ca'),

('Pearl', 'Cummings', 'Male', '2005-08-16', 'Tianna\_Mraz@katarina.tv'),

('Werner', 'Lehner', 'Male', '1979-01-10', 'Corbin@jules.me'),

('Sigmund', 'Prohaska', 'Male', '2003-08-17', 'Monroe\_Doyle@aleen.tv'),

('Anton', 'Bernier', 'Male', '1981-08-27', 'Abdiel@dulce.io'),

('Louie', 'Cummings', 'Male', '2005-12-17', 'Fred@ashley.tv'),

('Maximillia', 'Bogan', 'Male', '1983-06-20', 'Simone.Zboncak@hoyt.com'),

('Ivah', 'Roob', 'Male', '20061230', 'Gabe@dulce.biz'),

('Ford', 'Smith', 'Male', '19761130', 'Margot@isom.info'),

('Thomas', 'Lang', 'Male', '2002-10-12', 'Bettie@dangelo.ca'),

('Ericka', 'Grimes', 'Female', '19840218', 'Eda.Cummerata@makayla.ca'),

('Mohamed', 'Littel', 'Male', '20040218', 'Brionna@nellie.ca'),

('Micheal', 'Schoen', 'Male', '1986-02-24', 'Maxime@dale.org'),

('Wilber', 'West', 'Male', '2004-02-17', 'Demario@jake.tv'),

('Elinor', 'Frami', 'Female', '19830318', 'Velda\_Streich@jarrod.me'),

('Godfrey', 'Rohan', 'Male', '2006-12-09', 'Britney\_Cummerata@rowena.me'),

('Elfrieda', 'Hickle', 'Female', '19860418', 'Richard.Jones@kyleigh.net'),

('Stephen', 'Crist', 'Male', '2003-05-31', 'Jany\_Mante@adell.co.uk'),

('Murphy', 'Thompson', 'Male', '1984/01/27', 'Modesto@sanford.us'),

('Prudence', 'McLaughlin', 'Male', '2006-08-29', 'Devonte@carleton.net'),

('Freeda', 'Beahan', 'Female', '19850318', 'Krystina@juvenal.net'),

('Benjamin', 'Corwin', 'Male', '2003-02-01', 'Breanna@concepcion.info'),

('Lolita', 'Klein', 'Female', '1986-04-30', 'Elenora@cleveland.ca'),

('Dorris', 'Lubowitz', 'Male', '2007-07-24', 'Lennie\_Ullrich@annetta.net'),

('Camryn', 'Mayer', 'Male', '1982-05-03', 'Giovanna.Wolff@alexandria.name'),

('Stephen', 'Shields', 'Male', '2007-04-15', 'Nikit.Rohan@vidal.io'),

('Elmo', 'Hand', 'Female', '1986-04-09', 'Elmo.Hand@flossie.name'),

('Fletcher', 'Larkin', 'Male', '2007-04-09', NULL),

('Joshuah', 'Barrows', 'Male', '1980-10-09','Joshuah.Barrows@yahoo.com'),

('Ashleigh', 'Durgan', 'Male', '2004-04-13', 'Amelie.Rau@leonor.us'),

('Robb', 'Dicki', 'Male', '1983-04-23', 'Robb.Dicki@leonor.us'),

('Jose', 'Lebsack', 'Male', '2004-08-23', NULL),

('Tony', 'Savarimuthu', 'Male', '1981-05-17', 'tony.savarimuthu@gmail.com'),

('Rohan', 'Savarimuthu', 'Male', '2008-12-25', 'rohsav123@gmail.com'),

('Esther', 'Rogahn', 'Male', '1984-01-25', 'Esther.Rogahn@gmail.com'),

('Casey', 'Bashirian', 'Male', '2005-12-25', NULL),

('Paul', 'crawford', 'Male', '1980-12-25', 'Paul.crawford@gmail.com'),

('Lonie', 'fidel', 'Male', '2006-10-05', NULL),

('Tania', 'Johns', 'Female', '1983-05-31', 'Libby.Schowalter@vernice.info'),

('Charlene', 'Amore', 'Male', '2007-06-01', 'Cierra@virgie.me'),

('Eloy', 'Bergstrom', 'Male', '2005-10-12', 'Rollin@mike.biz'),

('Carole', 'Walsh', 'Male', '1976-04-15', 'Carole.Walsh@vidal.io'),

('Simeon', 'Zboncak', 'Male', '2006-03-15', NULL),

('Prince', 'Dickens', 'Male', '2002-04-14', NULL),

('Mauricio', 'Leffler', 'Male', '1978-07-06', 'Jose\_Graham@dustin.info'),

('Brenden', 'Witting', 'Male', '2004-04-28', 'Johanna@nicola.name'),

('Cora', 'Toy', 'Male', '2006-03-18', 'Josiah\_Wolff@nicolas.net'),

('Rosella', 'Smitham', 'Female', '1975-08-15', 'Rosella\_Smitham@sydnie.ca'),

('Darby', 'Barrows', 'Male', '1979-12-23', 'Darby\_Barrows@austin.net'),

('Laury', 'Crona', 'Male', '1976-11-05', 'Laury\_Crona@shaun.co.uk');

INSERT INTO person\_address (person\_id, address\_id) VALUES

(1,1),

(3,2),

(5,3),

(7,4),

(9,5),

(11,6),

(13,7),

(15,8),

(17,9),

(19,10),

(21,11),

(23,12),

(25,13),

(27,14),

(29,15),

(31,16),

(33,17),

(35,18),

(37,19),

(39,20),

(42,21),

(45,23),

(48,24),

(49,25),

(50,26);

INSERT INTO telephones (phone\_number, phone\_type) VALUES

('021 123 4567','mobile'),

('022 123 4567','mobile'),

('023 123 4567','mobile'),

('024 123 4567','mobile'),

('025 123 4567','mobile'),

('026 123 4567','mobile'),

('027 123 4567','mobile'),

('028 123 4567','mobile'),

('029 123 4567','mobile'),

('030 123 4567','mobile'),

('031 123 4567','mobile'),

('032 123 4567','mobile'),

('033 123 4567','mobile'),

('034 123 4567','mobile'),

('035 123 4567','landline'),

('036 123 4567','landline'),

('037 123 4567','mobile'),

('038 123 4567','mobile'),

('039 123 4567','mobile'),

('040 123 4567','landline'),

('041 123 4567','mobile'),

('042 123 4567','mobile'),

('043 123 4567','mobile'),

('044 123 4567','landline'),

('045 123 4567','mobile'),

('046 123 4567','landline');

INSERT INTO person\_telephone (person\_id, telephone\_id) VALUES

(1,1),

(3,2),

(5,3),

(7,4),

(9,5),

(11,6),

(13,7),

(15,8),

(17,9),

(19,10),

(21,11),

(23,12),

(25,13),

(27,14),

(29,15),

(31,16),

(33,17),

(35,18),

(37,19),

(39,20),

(42,21),

(45,23),

(48,24),

(49,25),

(50,26);

INSERT INTO schools (name, address, telephone) VALUES

('Otago Boys school', '2 Arthur St, Dunedin, 9016', '03-477 5527'),

('John McGlashan College', '2 Pilkington St, Maori Hill, Dunedin 9010', '03-467 6620'),

('high school of the kings', '270 Bay View Rd, Dunedin 9012', '03-455 7547'),

('Kavanagh College', '340 Rattray St, Dunedin, 9016', '03-477 3408'),

('Abbotsford School', '72 North Taieri Road, Dunedin', '03-4882642'),

('Taieri College', 'Green Street, Mosgiel', '03-4893823'),

('Kaikorai Valley College', 'Kaikorai Valley Road, Dunedin', '03-453 6035'),

('Balmacewen Intermediate', '44 Chapman Street, Dunedin', '03-466 7251'),

('Amana Christian School', '14 Gordon Road, Mosgiel', '03-489 2113');

INSERT INTO enrollments (school\_id, person\_id, student\_year, start\_date) VALUES

(1, 2, 9, '2019/02/07'),

(1, 4, 10, '2019/03/07'),

(1, 6, 9, '2019/02/08'),

(2, 8, 9, '2019/04/05'),

(2, 10, 11, '2019/06/07'),

(2, 12, 10, '2019/01/05'),

(3, 14, 10, '2019/02/06'),

(3, 16, 9, '2019/02/08'),

(3, 18, 11, '2019/03/07'),

(4, 20, 9, '2019/02/17'),

(4, 22, 10, '2019/02/27'),

(4, 24, 7, '2019/04/07'),

(5, 26, 7, '2019/02/11'),

(5, 28, 7, '2019/03/06'),

(5, 30, 10, '2019/02/01'),

(6, 32, 10, '2019/04/15'),

(6, 34, 6, '2019/02/18'),

(6, 36, 9, '2019/05/07'),

(7, 38, 8, '2019/02/27'),

(7, 40, 7, '2019/04/07'),

(7, 41, 8, '2019/05/17'),

(8, 43, 9, '2019/05/18'),

(8, 44, 11, '2019/10/25'),

(9, 46, 11, '2019/10/17'),

(9, 47, 8, '2019/07/08');

INSERT INTO coaches (person\_id, start\_date) VALUES

(42, '2019-02-07'),

(45, '2019-01-05'),

(48, '2019-04-01'),

(49, '2019-03-15'),

(50, '2019-03-26');

INSERT INTO teams (name, age, team\_year, coach\_id) VALUES

('All Blacks', 10, 2017, 1),

('Heartland', 11, 2017, 2),

('Black Ferns', 12, 2017, 3),

('Otago', 10, 2017, 4),

('Highlanders', 10, 2017, 5),

('All Blacks', 10, 2018, 1),

('Heartland', 11, 2018, 2),

('Black Ferns', 12, 2018, 3),

('Otago', 10, 2018, 4),

('Highlanders', 10, 2018, 5),

('All Blacks', 10, 2019, 1),

('Heartland', 11, 2019, 2),

('Black Ferns', 12, 2019, 3),

('Otago', 10, 2019, 4),

('Highlanders', 10, 2019, 5);

INSERT INTO players (enrollment\_id, team\_id) VALUES

(1,1),

(2,1),

(3,1),

(4,1),

(5,1),

(6,2),

(7,2),

(8,2),

(11,3),

(12,3),

(13,3),

(16,4),

(17,4),

(18,4),

(19,4),

(21,5),

(22,5),

(23,5),

(24,5),

(3,6),

(4,6),

(5,6),

(6,7),

(7,7),

(8,7),

(11,8),

(12,8),

(13,8),

(16,9),

(17,9),

(19,9),

(21,10),

(22,10),

(23,10),

(1,11),

(2,11),

(3,11),

(4,11),

(6,12),

(7,12),

(8,12),

(10,12),

(12,13),

(13,13),

(15,13),

(16,14),

(17,14),

(18,14),

(20,14),

(21,15),

(25,15);

INSERT INTO qualifications (name) VALUES

('Teenage Coaching Course'),

('Learning Rugby Course'),

('Playing Rugby Course'),

('Rugby Administration Course'),

('Rugby Experts Course');

INSERT INTO coach\_qualification (qualification\_id, coach\_id) VALUES

(1, 1 ),

(2, 2 ),

(3, 3 ),

(4, 4 ),

(5, 5 );

INSERT INTO guardians VALUES

(1,2),

(3,4),

(5,6),

(7,8),

(9,10),

(11,12),

(13,14),

(15,16),

(17,18),

(19,20),

(21,22),

(23,24),

(25,26),

(27,28),

(29,30),

(31,32),

(33,34),

(35,36),

(37,38),

(39,40),

(39,41),

(42,43),

(42,44),

(45,46),

(45,47);

DROP FUNCTION IF EXISTS teamsize;

DELIMITER //

CREATE FUNCTION teamsize(tName VARCHAR(25), tYear YEAR)

returns int

BEGIN

SET @tSize = (SELECT COUNT(\*) FROM players WHERE team\_id IN (SELECT id FROM teams WHERE name = tName AND tYear = team\_year) );

RETURN @tSize;

END; //

DELIMITER ;

SELECT teamsize("All Blacks", '2019');

DROP VIEW IF EXISTS phonelist;

CREATE VIEW phonelist AS SELECT DISTINCT p.id AS Person\_id, p.first\_name AS Student, t.name AS Team, per.first\_name AS Caregiver, tel.phone\_number AS Phone\_number FROM ((((((teams t JOIN players pl ON t.id = pl.team\_id) JOIN enrollments en ON pl.enrollment\_id = en.id) JOIN persons p ON en.person\_id = p.id) JOIN guardians g ON p.id = g.dependant\_id) JOIN persons per ON g.caregiver\_id = per.id) JOIN person\_telephone pt ON pt.person\_id = per.id) JOIN telephones tel ON pt.telephone\_id = tel.id ORDER BY p.id;