# **IntelliJustice Database Structure**

**ij\_champ\_format\_tbl**

* *champ\_key*
* format

Format

**ij\_champ\_city\_tbl**

* *champ\_key*
* *city\_en\_key*

City

**ij\_champ\_type\_tbl**

* *champ\_key*
* *type\_en\_key*

Type

**ij\_champ\_tbl**

* champ\_id
* name

Championship

**ij\_champ\_type\_en\_tbl**

* type\_en\_id
* type

Type Entity

**ij\_champ\_city\_en\_tbl**

* city\_en\_id
* city

City Entity

**ij\_comp\_type\_en\_tbl**

* type\_en\_id
* type

Type Entity

**ij\_comp\_name\_en\_tbl**

* name\_en\_id
* name

Name Entity

**ij\_comp\_athl\_list\_tbl**

* *comp\_key*
* *athl\_key*
* number

Athlete List

**ij\_comp\_name\_tbl**

* *comp\_key*
* *name\_en\_key*

Name

**ij\_comp\_type\_tbl**

* *comp\_key*
* *type\_en\_key*

Type

**ij\_comp\_tbl**

* comp\_id
* *champ\_key*

Competition

**ij\_comp\_sex\_tbl**

* *comp\_key*
* sex

Sex

**ij\_track\_results\_tbl**

* *comp\_key*
* *athl\_key*
* result

Track Results

**ij\_comp\_time\_tbl**

* *comp\_key*
* time

Time

**Ij\_sex\_tbl**

* *athl\_key*
* sex

Sex

**ij\_athl\_tbl**

* athl\_id

Athlete

**ij\_first\_nm\_tbl**

* *athl\_key*
* *first\_nm\_key*

First Name

**ij\_second\_nm\_tbl**

* *athl\_key*
* *second\_nm\_key*

Second Name

**ij\_birthday\_tbl**

* *athl\_key*
* birthday

Birthday

**ij\_first\_nm\_en\_tbl**

* first\_nm\_en\_id
* first\_name

First Name Entity

Second Name Entity

**ij\_second\_nm\_en\_tbl**

* second\_nm\_en\_id
* second\_name

**Ij\_personal\_bests\_tbl**

* *athl\_key*
* *type\_key*
* personal

Personal Bests

**Ij\_season\_bests\_tbl**

* *athl\_key*
* *type\_key*
* season

Season Bests

**Ij\_world\_records\_men\_tbl**

* *athl\_key*
* *type\_key*
* record

Men Records

**Ij\_world\_records\_women\_tbl**

* *athl\_key*
* *type\_key*
* record

Women Records

# Database Creation Script

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-- IntelliJustice Intelligent Referee Assistant System

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-- The MIT License

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-- The project database creation script.

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-- @author Andrey Pudov <mail@andreypudov.com>

-- @version 0.00.00

-- %name intellijustice.sql

-- %date 10:00:00 AM, Jul 28, 2012

--

-- start database -- mysqld

-- shutdown database -- mysqladmin -u root shutdown

-- commented to prevent unexpected database corruption

-- DROP DATABASE IF EXISTS intellijustice;

-- CREATE DATABASE intellijustice CHARACTER SET 'utf8';

USE intellijustice;

-- create championship table that stores the lists of all processed championships

CREATE TABLE ij\_champ\_tbl (

champ\_id INT UNSIGNED NOT NULL AUTO\_INCREMENT,

name VARCHAR(255) NOT NULL,

PRIMARY KEY (champ\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_champ\_type\_en\_tbl (

type\_en\_id INT UNSIGNED NOT NULL AUTO\_INCREMENT,

type VARCHAR(255) NOT NULL,

PRIMARY KEY (type\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_champ\_type\_tbl (

champ\_key INT UNSIGNED NOT NULL,

type\_en\_key INT UNSIGNED NOT NULL,

FOREIGN KEY (champ\_key)

REFERENCES ij\_champ\_tbl(champ\_id),

FOREIGN KEY (type\_en\_key)

REFERENCES ij\_champ\_type\_en\_tbl(type\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_champ\_city\_en\_tbl (

city\_en\_id INT UNSIGNED NOT NULL AUTO\_INCREMENT,

city VARCHAR(255) NOT NULL,

PRIMARY KEY (city\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_champ\_city\_tbl (

champ\_key INT UNSIGNED NOT NULL,

city\_en\_key INT UNSIGNED NOT NULL,

FOREIGN KEY (champ\_key)

REFERENCES ij\_champ\_tbl(champ\_id),

FOREIGN KEY (city\_en\_key)

REFERENCES ij\_champ\_city\_en\_tbl(city\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

-- create athlete layer

CREATE TABLE ij\_athl\_tbl (

athl\_id INT UNSIGNED NOT NULL AUTO\_INCREMENT,

PRIMARY KEY (athl\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_first\_nm\_en\_tbl (

first\_nm\_en\_id INT UNSIGNED NOT NULL AUTO\_INCREMENT,

first\_name VARCHAR(255) NOT NULL,

PRIMARY KEY (first\_nm\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_first\_nm\_tbl (

athl\_key INT UNSIGNED NOT NULL,

first\_nm\_key INT UNSIGNED NOT NULL,

FOREIGN KEY (athl\_key)

REFERENCES ij\_athl\_tbl(athl\_id),

FOREIGN KEY (first\_nm\_key)

REFERENCES ij\_first\_nm\_en\_tbl(first\_nm\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_second\_nm\_en\_tbl (

second\_nm\_en\_id INT UNSIGNED NOT NULL AUTO\_INCREMENT,

second\_name VARCHAR(255) NOT NULL,

PRIMARY KEY (second\_nm\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_second\_nm\_tbl (

athl\_key INT UNSIGNED NOT NULL,

second\_nm\_key INT UNSIGNED NOT NULL,

FOREIGN KEY (athl\_key)

REFERENCES ij\_athl\_tbl(athl\_id),

FOREIGN KEY (second\_nm\_key)

REFERENCES ij\_second\_nm\_en\_tbl(second\_nm\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_birthday\_en\_tbl (

birthday\_en\_id INT UNSIGNED NOT NULL AUTO\_INCREMENT,

birthday VARCHAR(255) NOT NULL,

PRIMARY KEY (birthday\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_birthday\_tbl (

athl\_key INT UNSIGNED NOT NULL,

birthday\_key INT UNSIGNED NOT NULL,

FOREIGN KEY (athl\_key)

REFERENCES ij\_athl\_tbl(athl\_id),

FOREIGN KEY (birthday\_key)

REFERENCES ij\_birthday\_en\_tbl(birthday\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

-- create competition layer

CREATE TABLE ij\_comp\_tbl (

comp\_id INT UNSIGNED NOT NULL AUTO\_INCREMENT,

champ\_key INT UNSIGNED NOT NULL,

PRIMARY KEY (comp\_id),

FOREIGN KEY (champ\_key)

REFERENCES ij\_champ\_tbl(champ\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_comp\_type\_en\_tbl (

type\_en\_id INT UNSIGNED NOT NULL AUTO\_INCREMENT,

type VARCHAR(255) NOT NULL,

PRIMARY KEY (type\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_comp\_type\_tbl (

comp\_key INT UNSIGNED NOT NULL,

type\_en\_key INT UNSIGNED NOT NULL,

FOREIGN KEY (comp\_key)

REFERENCES ij\_comp\_tbl(comp\_id),

FOREIGN KEY (type\_en\_key)

REFERENCES ij\_comp\_type\_en\_tbl(type\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_comp\_name\_en\_tbl (

name\_en\_id INT UNSIGNED NOT NULL AUTO\_INCREMENT,

name VARCHAR(255) NOT NULL,

PRIMARY KEY (name\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_comp\_name\_tbl (

comp\_key INT UNSIGNED NOT NULL,

name\_en\_key INT UNSIGNED NOT NULL,

FOREIGN KEY (comp\_key)

REFERENCES ij\_comp\_tbl(comp\_id),

FOREIGN KEY (name\_en\_key)

REFERENCES ij\_comp\_name\_en\_tbl(name\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_comp\_athl\_list\_tbl (

comp\_key INT UNSIGNED NOT NULL,

athl\_key INT UNSIGNED NOT NULL,

number INT UNSIGNED NOT NULL,

FOREIGN KEY (comp\_key)

REFERENCES ij\_comp\_tbl(comp\_id),

FOREIGN KEY (athl\_key)

REFERENCES ij\_athl\_tbl(athl\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_comp\_time\_tbl (

comp\_key INT UNSIGNED NOT NULL,

time TIMESTAMP NOT NULL,

FOREIGN KEY (comp\_key)

REFERENCES ij\_comp\_tbl(comp\_id),

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

-- create athlete sub layer for resords

CREATE TABLE ij\_personal\_bests\_tbl (

athl\_key INT UNSIGNED NOT NULL,

type\_key INT UNSIGNED NOT NULL,

personal VARCHAR(255) NOT NULL,

FOREIGN KEY (athl\_key)

REFERENCES ij\_athl\_tbl(athl\_id),

FOREIGN KEY (type\_key)

REFERENCES ij\_comp\_type\_en\_tbl(type\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_season\_bests\_tbl (

athl\_key INT UNSIGNED NOT NULL,

type\_key INT UNSIGNED NOT NULL,

season VARCHAR(255) NOT NULL,

FOREIGN KEY (athl\_key)

REFERENCES ij\_athl\_tbl(athl\_id),

FOREIGN KEY (type\_key)

REFERENCES ij\_comp\_type\_en\_tbl(type\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_world\_records\_men\_tbl (

athl\_key INT UNSIGNED NOT NULL,

type\_key INT UNSIGNED NOT NULL,

record VARCHAR(255) NOT NULL,

FOREIGN KEY (athl\_key)

REFERENCES ij\_athl\_tbl(athl\_id),

FOREIGN KEY (type\_key)

REFERENCES ij\_comp\_type\_en\_tbl(type\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

CREATE TABLE ij\_world\_records\_women\_tbl (

athl\_key INT UNSIGNED NOT NULL,

type\_key INT UNSIGNED NOT NULL,

record VARCHAR(255) NOT NULL,

FOREIGN KEY (athl\_key)

REFERENCES ij\_athl\_tbl(athl\_id),

FOREIGN KEY (type\_key)

REFERENCES ij\_comp\_type\_en\_tbl(type\_en\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';

-- create competition sub layer for results

CREATE TABLE ij\_track\_results\_tbl (

comp\_key INT UNSIGNED NOT NULL,

athl\_key INT UNSIGNED NOT NULL,

result VARCHAR(255) NOT NULL,

FOREIGN KEY (comp\_key)

REFERENCES ij\_comp\_tbl(comp\_id),

FOREIGN KEY (athl\_key)

REFERENCES ij\_athl\_tbl(athl\_id)

) ENGINE = InnoDB DEFAULT CHARSET = 'utf8';