INFO DOCUMENT – ISAD157

BLACK = What was initially done  
BLUE = What has been fixed / what it should be  
ORANGE = Including foreign key(s)

***Users Table:***  
CREATE TABLE isad157\_jkinver.users  
(  
user\_id VARCHAR(15) NOT NULL,  
user\_forename VARCHAR(40) NOT NULL,  
user\_surname VARCHAR(40) NOT NULL,  
user\_hometown VARCHAR(50) NOT NULL,  
user\_gender VARCHAR(12) NOT NULL,  
relationship\_status VARCHAR(20) NOT NULL,  
user\_town\_or\_city VARCHAR(50) NOT NULL,  
PRIMARY KEY (user\_id)  
);

***Workplace Table:***  
CREATE TABLE isad157\_jkinver.workplaces  
(  
user\_id VARCHAR(15) NOT NULL,  
user\_workplace VARCHAR(60) NOT NULL,  
user\_workplace\_date DATE NOT NULL,  
PRIMARY KEY (user\_id, user\_workplace)  
);   
*I forgot to make the workplace the second key, so it was done after the initial creation:*ALTER TABLE `isad157\_jkinver`.`workplaces`   
DROP PRIMARY KEY,  
ADD PRIMARY KEY (`user\_id`, `user\_workplace`);  
;

CREATE TABLE isad157\_jkinver.workplaces  
(  
user\_id VARCHAR(15) NOT NULL,  
user\_workplace VARCHAR(60) NOT NULL,  
user\_workplace\_date DATE NOT NULL,  
PRIMARY KEY (user\_id, user\_workplace),  
CONSTRAINT workplace\_user\_id FOREIGN KEY (user\_id)  
REFERENCES isad157\_jkinver.users(user\_id)  
ON UPDATE CASCADE  
ON DELETE CASCADE  
);

***Schools/Universities Table:***CREATE TABLE isad157\_jkinver.schools  
(  
user\_id VARCHAR(15) NOT NULL,  
user\_school\_or\_uni VARCHAR(60) NOT NULL,  
user\_school\_or\_uni\_date DATE NOT NULL,  
PRIMARY KEY (user\_id, user\_school\_or\_uni)  
);   
*I (this time) forgot to make the date not null (and the school/uni itself but it cannot be null due to being a key):*ALTER TABLE `isad157\_jkinver`.`schools`   
CHANGE COLUMN `user\_school\_or\_uni\_date` `user\_school\_or\_uni\_date` DATE NOT NULL ;

CREATE TABLE isad157\_jkinver.schools  
(  
user\_id VARCHAR(15) NOT NULL,  
user\_school\_or\_uni VARCHAR(60) NOT NULL,  
user\_school\_or\_uni\_date DATE NOT NULL,  
PRIMARY KEY (user\_id, user\_school\_or\_uni),  
CONSTRAINT school\_user\_id FOREIGN KEY (user\_id)  
REFERENCES isad157\_jkinver.users (user\_id)  
ON UPDATE CASCADE   
ON DELETE CASCADE  
);

***User/Friend Link Table:***   
CREATE TABLE isad157\_jkinver.user\_friend\_link  
(  
user\_id VARCHAR(15) NOT NULL,  
friend\_id VARCHAR(15) NOT NULL,  
PRIMARY KEY (user\_id, friend\_id)  
);

CREATE TABLE isad157\_jkinver.user\_friend\_link  
(  
user\_id VARCHAR(15) NOT NULL,  
friend\_id VARCHAR(15) NOT NULL,  
PRIMARY KEY (user\_id, friend\_id),  
CONSTRAINT link\_user\_id FOREIGN KEY (user\_id)  
REFERENCES isad157\_jkinver.users (user\_id)  
ON UPDATE CASCADE   
ON DELETE CASCADE,  
CONSTRAINT link\_friend\_id FOREIGN KEY (friend\_id)  
REFERENCES isad157\_jkinver.friends (friend\_id)  
ON UPDATE CASCADE   
ON DELETE CASCADE  
);

***Friends Table:***CREATE TABLE isad157\_jkinver.friends  
(  
friend\_id VARCHAR(15) NOT NULL,  
friend\_forename VARCHAR(40) NOT NULL,  
friend\_surname VARCHAR(40) NOT NULL,  
PRIMARY KEY (friend\_id)  
);

***Messages Table:***CREATE TABLE isad157\_jkinver.messages  
(  
sender\_id VARCHAR(15) NOT NULL,  
receiver\_id VARCHAR(15) NOT NULL,  
date\_and\_time\_sent DATETIME NOT NULL,  
content VARCHAR(640) NOT NULL,  
PRIMARY KEY (sender\_id, receiver\_id)  
);

***Select Lines:***"SELECT \* FROM isad157\_jkinver.users"  
"SELECT \* FROM isad157\_jkinver.user\_friend\_link"  
"SELECT \* FROM isad157\_jkinver.workplaces"  
"SELECT \* FROM isad157\_jkinver.schools"  
"SELECT \* FROM isad157\_jkinver.messages"