Group: KASK

Project name: KIOSK

Name: Khanh – Khanh – Andrew – Smahane

**AESDatabase – Test**

**-- Testing Applicant Relation --**

**-- Names like ‘IDX\_Person’ and ‘PK\_UID’, ‘Applicant’ are match**

**-- Other Tests (Test cases for Firstname and Lastname should be the same)**

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Khanh', 'Nguyen', 1992, 'M');

--Test: Adding a new applicant

--Test PASSED

--Script GOOD

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Khanh', 'Nguyen', 1992, 'M');

--Test: Adding Duplication of the existing applicant

--Test FAILED

--Script GOOD

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Kahn', 'Nguyen', 1991, 'F');

--Test: Adding 2nd people with duplicated LastName

--Test PASSED

--Script GOOD

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Khan', '', 1995, 'F');

--Test: Adding a person with LastName is empty

--Test PASSED

--Script BAD

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Khan', NULL, 1992, 'F');

--Test: Adding a person with LastName is NULL

--Test FAILED

--Script GOOD

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Khan', 999, '1888', 'M');

--Test: Adding a person with LastName is a number

--Test PASSED

--Script BAD

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Khan', 'Nguye', 1992, 'F');

--Test: Adding 2nd people with duplicated SSN

--Test PASSED

--Script BAD

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Khan', 'Vo', NULL, 'F');

--Test: Adding a person with SSN is NULL

--Test FAILED

--Script GOOD

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Khan', 'Vo', '', 'F');

--Test: Adding a person with SSN is empty

--Test PASSED

--Script BAD

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Khan', 'Vo', 'Nam', 'M');

--Test: Adding a person with SSN is a word/string

--Test PASSED

--Script BAD

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Khan', 'Vo', 1939, 7);

--Test: Adding a person with Gender is a one-degit number

--Test PASSED

--Script BAD

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Khan', 'Vo', 1639, NULL);

--Test: Adding a person with Gender is a NULL

--Test PASSED

--Script BAD

INSERT INTO Applicant(FirstName, LastName, SSN, Gender) VALUES ('Khan', 'Vo', 1239, '');

--Test: Adding a person with Gender is empty

--Test PASSED

--Script BAD

**-- Testing Skills Relation --**

**-- Names like ‘PKSkillID’, ‘Skills’ are match**

**-- Other Tests**

INSERT INTO Skills (SkillName) VALUES ('Typing');

--Test: Adding a duplicate Skill 'Typing'

--Test PASSED

--Script BAD

INSERT INTO Skills (SkillName) VALUES ('Play Soccer');

--Test: Adding a new skill 'Play Soccer'

--Test PASS

--Script GOOD

INSERT INTO Skills (SkillName) VALUES ('');

--Test: Adding a empty string to skill

--Test PASSED

--Script BAD

INSERT INTO Skills (SkillName) VALUES (NULL);

--Test: Adding a NULL to skill

--Test PASSED

--Script BAD

INSERT INTO Skills (SkillName) VALUES (4845);

--Test: Adding a number to skill

--Test PASSED

--Script BAD

**-- Testing Expertise Relation --**

**-- Names like ‘PKExpertiseApplicantID’, ‘PKExpertiseSkillID’, ‘Expertise’, ‘Applicant\_ID’, ‘Skill\_ID’ are correct**

**-- Other Tests**

INSERT INTO Expertise(Applicant\_ID, Skill\_ID) VALUES (1, 6);

--Test: Adding a duplicate Skill to the existing applicant

--Test PASSED

--Script BAD

INSERT INTO Expertise(Applicant\_ID, Skill\_ID) VALUES (5, 6);

--Test: Adding skill to the applicant that isn’t existed

--Test FAILED

--Script GOOD

INSERT INTO Expertise(Applicant\_ID, Skill\_ID) VALUES (2, 6);

--Test: Adding skill same skill to another applicant

--Test PASSED

--Script GOOD

INSERT INTO Expertise(Applicant\_ID, Skill\_ID) VALUES (2, 7);

--Test: Adding skill that doesn’t exist

--Test PASSED

--Script BAD

INSERT INTO Expertise(Applicant\_ID, Skill\_ID) VALUES (2, '');

INSERT INTO Expertise(Applicant\_ID, Skill\_ID) VALUES ('', 5);

--Test: Adding nothing to skill/Applicant

--Test FAILED

--Script GOOD

INSERT INTO Expertise(Applicant\_ID, Skill\_ID) VALUES (2, 'LOL');

INSERT INTO Expertise(Applicant\_ID, Skill\_ID) VALUES ('LOL', 5);

--Test: Adding a string to skill/Applicant

--Test FAILED

--Script GOOD

INSERT INTO Expertise(Applicant\_ID, Skill\_ID) VALUES (2, NULL);

INSERT INTO Expertise(Applicant\_ID, Skill\_ID) VALUES (NULL, 5);

INSERT INTO Expertise(Applicant\_ID, Skill\_ID) VALUES (NULL, NULL);

--Test: Adding NULL to skill/Applicant

--Test FAILED

--Script GOOD

**-- Testing Applications Relation --**

**-- Names like ‘PKExpertiseApplicantID’, ‘PKExpertiseSkillID’, ‘Expertise’, ‘Applicant\_ID’, ‘Skill\_ID’ are correct**

**-- Other Tests**

INSERT INTO Applications(ApplicationStatus) VALUES ('Ignored');

--Test: Adding new application status

--Test PASSED

--Script GOOD

INSERT INTO Applications(ApplicationStatus) VALUES ('Submitted');

--Adding duplicate application status

--Test FAILED

--Script BAD

INSERT INTO Applications(ApplicationStatus) VALUES ('');

--Test: Adding an empty string to application status

--Test PASSED

--Script GOOD

INSERT INTO Applications(ApplicationStatus) VALUES (NULL);

--Test: Adding an empty string to application status

--Test PASSED

--Script BAD

INSERT INTO Applications(ApplicationStatus) VALUES (‘lolololololololol’);

--Adding a very long string to Application Status

--Test FAILED

--Script GOOD

INSERT INTO Applications(ApplicationStatus) VALUES (32423);

--Test: Adding a number to Application Status

--Test PASSED

--Script BAD

**-- Testing Jobs Relation --**

**-- Names like ‘PKJobID’, ‘Jobs’ are match**

**-- Other Tests**

INSERT INTO Jobs(Job\_Title) VALUES ('Factory Worker');

--Test: Adding duplicate Job\_Title

--Test PASSED

--Script BAD

INSERT INTO Jobs(Job\_Title) VALUES ('Dream Walker');

--Test: Adding new Job-Title

--Test PASSED

--Script GOOD

INSERT INTO Jobs(Job\_Title) VALUES ('');

--Test: Adding empty string

--Test PASSED

--Script BAD

INSERT INTO Jobs(Job\_Title) VALUES (NULL);

--Test: Adding NULL

--Test PASSED

--Script BAD

INSERT INTO Jobs(Job\_Title) VALUES (888);

--Test: Adding a number to Job-Title

--Test PASSED

--Script BAD

**-- Testing JOB\_REQUIREMENTS Relation --**

**-- Names like ‘PKJobReq’, ‘PKSkillReq’, ‘Job\_Requirement’ are match**

**-- Other Tests**

INSERT INTO Job\_Requirements(Job\_ID, Skill\_ID, Notes) VALUES (1, 2, '');

INSERT INTO Job\_Requirements(Job\_ID, Skill\_ID, Notes) VALUES (1, 5, 'Preferred');

--Test: Adding Duplicate of set Job\_ID, Skill\_ID, Notes

--Test PASSED

--Script BAD

INSERT INTO Job\_Requirements(Job\_ID, Skill\_ID, Notes) VALUES (1, 5, 'Preferreddddddddddddddddddd');

--Test: Adding Notes longer than 20 char

–-Test FAILED

--Script GOOD

INSERT INTO Job\_Requirements(Job\_ID, Skill\_ID, Notes) VALUES (‘kuk’, ‘lol’, 'Preferred');

--Test: Adding strings to Job\_ID, Skill\_ID

–-Test FAILED

--Script GOOD

INSERT INTO Job\_Requirements(Job\_ID, Skill\_ID, Notes) VALUES (1, 5, 999);

--Test: Adding number to Notes

--Test PASSED

--Script BAD

INSERT INTO Job\_Requirements(Job\_ID, Skill\_ID, Notes) VALUES (1, 5, NULL);

--Test: Adding NULL to Notes

--Test PASSED

--Script BAD

INSERT INTO Job\_Requirements(Job\_ID, Skill\_ID, Notes) VALUES (1, NULL, 'Preferred');

INSERT INTO Job\_Requirements(Job\_ID, Skill\_ID, Notes) VALUES (NULL, 5, 'Preferred');

INSERT INTO Job\_Requirements(Job\_ID, Skill\_ID, Notes) VALUES (NULL, NULL, 'Preferred');

--Adding NULL to Job\_ID, Skill\_ID, or both

–-Test FAILED

--Script GOOD

INSERT INTO Job\_Requirements(Job\_ID, Skill\_ID, Notes) VALUES (1, '', 'Preferred');

INSERT INTO Job\_Requirements(Job\_ID, Skill\_ID, Notes) VALUES ('', 5, 'Preferred');

INSERT INTO Job\_Requirements(Job\_ID, Skill\_ID, Notes) VALUES ('', '', 'Preferred');

--Adding empty string to Job\_ID, Skill\_ID, or both

–-Test FAILED

--Script GOOD

**-- Testing Applied Relation --**

**-- Names like ‘PKApplicantID’, ‘PKApplicationID’, ‘PKJobID’, and ‘Applied’ are match**

**-- Other Tests**

INSERT INTO Applied(Applicant\_ID, Application\_ID, Job\_ID, DateApplied) VALUES (1, 1, 1, GETDATE());

--Test: Adding duplicate

--Test FAILED

--Script BAD

INSERT INTO Applied(Applicant\_ID, Application\_ID, Job\_ID, DateApplied) VALUES ('', '', '', GETDATE());

--Test: Adding empty strings to Applicant\_ID, Application\_ID, Job\_ID

--Test FAILED

--Script GOOD

INSERT INTO Applied(Applicant\_ID, Application\_ID, Job\_ID, DateApplied) VALUES ('vbv', 'gh', 'sdf', GETDATE());

--Test: Adding strings to Applicant\_ID, Application\_ID, Job\_ID

--Test FAILED

--Script GOOD

INSERT INTO Applied(Applicant\_ID, Application\_ID, Job\_ID, DateApplied) VALUES (NULL, NULL, NULL, GETDATE());

--Test: Adding NULL to Applicant\_ID, Application\_ID, Job\_ID

--Test FAILED

--Script GOOD

**-- Testing School Relation --**

**-- Names like ‘PKSchoolID’, ‘School’ are match**

**-- Other Tests**

INSERT INTO School(School\_Name) VALUES ('PCC');

--Test: Adding duplicate

–-Test PASSED

--Script BAD

INSERT INTO School(School\_Name) VALUES ('');

--Test: Adding empty school name

--Test PASSED

--Script BAD

INSERT INTO School(School\_Name) VALUES (NULL);

--Test: Adding NULL school name

--Test PASSED

--Script BAD

INSERT INTO School(School\_Name) VALUES (999);

--Test: Adding a number school name

--Test PASSED

--Script BAD

**-- Testing Education Relation --**

**-- Names like ‘PKApplicantEducationID’, ‘PKSchoolID’, ‘Education’ are match**

**-- Other Tests**

INSERT INTO Education(Applicant\_ID, School\_ID) VALUES (1, 2);

--Adding duplicate

--Test FAILED

--Scrip GOOD

INSERT INTO Education(Applicant\_ID, School\_ID) VALUES (1, 6);

--Adding school that doesn’t exist for an Applicant

--Test FAILED

--Scrip BAD

INSERT INTO Education(Applicant\_ID, School\_ID) VALUES (1, 4);

--Adding more school for an Applicant

--Test FAILED

--Scrip BAD

INSERT INTO Education(Applicant\_ID, School\_ID) VALUES (5, 3);

--Adding school for a not-existing applicant

--Test FAILED

--Scrip GOOD

**-- Testing Employer Relation --**

**-- Names like ‘PKEmployerID’, ‘Employer’ are match**

**-- Other Tests**

INSERT INTO Employer(Employer\_Name) VALUES ('Intel');

--Adding duplication of emplyer

--Test PASSED

--Scrip BAD

INSERT INTO Employer(Employer\_Name) VALUES (‘’);

--Adding empty Employer name

--Test PASSED

--Scrip BAD

INSERT INTO Employer(Employer\_Name) VALUES (NULL);

--Adding NULL to employer name

--Test PASSED

--Scrip BAD

INSERT INTO Employer(Employer\_Name) VALUES (999);

--Adding number for employer name

--Test PASSED

--Scrip BAD

**-- Testing Work Relation --**

**-- Names like ‘PKApplicantWorkID’, ‘PKEmployerID’, ‘Work’ are match**

**-- Other Tests**

INSERT INTO Work(Applicant\_ID, Employer\_ID) VALUES (1, 2);

--Test: Adding duplicate of Applicant\_ID and Employer\_ID

--Test FAILED

--Scrip GOOD

INSERT INTO Work(Applicant\_ID, Employer\_ID) VALUES (8, 2);

--Test: Adding the applicant that doesn’t exist

--Test FAILED

--Scrip GOOD

INSERT INTO Work(Applicant\_ID, Employer\_ID) VALUES (3, 1);

--Test: Adding the applicant to another employer

--Test FAILED

--Scrip GOOD

INSERT INTO Work(Applicant\_ID, Employer\_ID) VALUES (NULL, 1);

--Test: Adding NULL to another employer

--Test FAILED

--Scrip GOOD

INSERT INTO Work(Applicant\_ID, Employer\_ID) VALUES (3, NULL);

--Test: Adding the applicant to NULL employer

--Test FAILED

--Scrip GOOD

INSERT INTO Work(Applicant\_ID, Employer\_ID) VALUES (NULL, NULL);

--Test: Adding the NULL applicant to NULL employer

--Test FAILED

--Scrip GOOD

INSERT INTO Work(Applicant\_ID, Employer\_ID) VALUES (7, 1);

--Test: Adding the none-exist applicant to employer

--Test FAILED

--Scrip GOOD

INSERT INTO Work(Applicant\_ID, Employer\_ID) VALUES (8, 8);

--Test: Adding the none-existing applicant to none-existing employer

--Test FAILED

--Scrip GOOD

INSERT INTO Work(Applicant\_ID, Employer\_ID) VALUES ('', 1);

--Test: Adding the empty applicant to an employer

--Test FAILED

--Scrip GOOD

INSERT INTO Work(Applicant\_ID, Employer\_ID) VALUES (3, '');

--Test: Adding the applicant to an empty employer

--Test FAILED

--Scrip GOOD

INSERT INTO Work(Applicant\_ID, Employer\_ID) VALUES ('', '');

--Test: Adding the empty applicant to empty employer – Not Executed

--Test FAILED

--Scrip GOOD