Table: USER

Attribute	Provided in variable	Can be NULL?	Notes
Username	user	N	New username can be provided in variable new_user for admin to update
PasswordHash	hash	N	string password is hashed, hash stored in variable 'hash'
Fname	fn	Y	
Lname	In	Y	
IsActive	active	N	Default value of 1 == True

Creation

- User can be added by applicant when registering, or by an admin INSERT INTO USER VALUES (user, hash, fn, In, active);

Updating

- Applicant can update password hash, first and last name
- Admin can also update an applicant's password

UPDATE USER

SET PasswordHash = hash

WHERE Username = user;

UPDATE USER

SET Fname = fn

WHERE Username = user;

UPDATE USER

SET Lname= In

WHERE Username = user;

- Admin can additionally update username and active status (deactivate / reactivate user) for a specific user

UPDATE USER

SET Username = new_user

WHERE Username = user;

UPDATE USER

SET IsActive = active

WHERE Username = user;

Deleting

 Users can only be deleted by an admin DELETE FROM USER
 WHERE Username = user;

Table: APPLICANT

Attribute	Provided in variable	Can be NULL?	Notes
Username	user	N	FK, must reference existing user
Education	edu	Y	

Creation

- Applicant entry created when registering for an account; option to create entry with additional education details provided by applicant

INSERT INTO APPLICANT VALUES (user, edu);

Updating

Applicant can update education
 UPDATE APPLICANT
 SET Education = edu
 WHERE Username = user;

Deleting

- Applicants can only be deleted by an admin DELETE FROM APPLICANT WHERE Username = user;

Table: APPLICANT_EXPERIENCE

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
Experience	ехр	N	updated experience name can be provided in variable new_exp
ExperienceDesc	expd	Y	

 Applicant can add experience entries INSERT INTO APPLICANT_EXPERIENCE VALUES (user, exp, expd);

Updating

Applicant can update experience name and description
 UPDATE APPLICANT_EXPERIENCE
 SET Experience = new_exp
 WHERE ApplicantUsername = user
 AND Experience = exp;

UPDATE APPLICANT_EXPERIENCE SET ExperienceDesc = expd WHERE ApplicantUsername = user AND Experience = exp;

Deleting

 Applicants can delete specific experiences by name or all experiences at once DELETE FROM APPLICANT_EXPERIENCE
 WHERE ApplicantUsername = user
 AND Experience = exp;

DELETE FROM APPLICANT_EXPERIENCE WHERE ApplicantUsername = user;

Table: APPLICANT_PROJECT

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
Project	prj	N	updated project name can be provided in variable new_prj
ProjectDesc	prjd	Y	

Creation

- Applicant can add project entries INSERT INTO APPLICANT_PROJECT VALUES (user, prj, prjd);

Updating

Applicant can update project name and description
 UPDATE APPLICANT_PROJECT
 SET Project = new_prj
 WHERE ApplicantUsername = user
 AND Project = prj;

UPDATE APPLICANT_PROJECT SET ProjectDesc = prjd WHERE ApplicantUsername = user AND Project = prj;

Deleting

 Applicants can delete specific projects by name or all projects at once DELETE FROM APPLICANT_PROJECT
 WHERE ApplicantUsername = user
 AND Project = prj;

DELETE FROM APPLICANT_PROJECT WHERE ApplicantUsername = user;

Table: APPLICANT CERTIFICATION

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
Certification	cert	N	updated certification name can be provided in variable new_cert

Creation

- Applicant can add certification entries INSERT INTO APPLICANT_CERTIFICATION VALUES (user, cert);

Updating

 Applicant can update certification name UPDATE APPLICANT_CERTIFICATION
 SET Certification = new_cert
 WHERE ApplicantUsername = user
 AND Certification = cert;

Deleting

- Applicants can delete specific certifications by name or all certifications at once DELETE FROM APPLICANT_CERTIFICATION WHERE ApplicantUsername = user

DELETE FROM APPLICANT_CERTIFICATION WHERE ApplicantUsername = user;

Table: APPLICANT SKILL

AND Certification = cert;

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	Ν	FK, must reference existing applicant
Skill	ski	N	updated skill name can be provided in variable new_skl

Creation

 Applicant can add skill entries INSERT INTO APPLICANT_SKILL VALUES (user, skl);

Updating

 Applicant can update skill name UPDATE APPLICANT_SKILL
 SET Skill = new_skl
 WHERE ApplicantUsername = user
 AND Skill = skl;

Deleting

 Applicants can delete specific skills by name or all skills at once DELETE FROM APPLICANT_SKILL
 WHERE ApplicantUsername = user
 AND Skill = skl;

DELETE FROM APPLICANT_SKILL WHERE ApplicantUsername = user;

<u>Table: APPLICANT_COMPETITION</u>

Attribute	Provided in variable	Can be NULL?	Notes
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ApplicantUsername	user	Ν	FK, must reference existing applicant
Competition	стр	N	updated competition name can be provided in variable new_cmp

 Applicant can add competition entries INSERT INTO APPLICANT_COMPETITION VALUES (user, cmp);

Updating

 Applicant can update competition name UPDATE APPLICANT_COMPETITION
 SET Competition = new_cmp
 WHERE ApplicantUsername = user
 AND Competition = cmp;

Deleting

- Applicants can delete specific competitions by name or all competitions at once DELETE FROM APPLICANT_COMPETITION
WHERE ApplicantUsername = user
AND Competition = cmp;

DELETE FROM APPLICANT_COMPETITION WHERE ApplicantUsername = user;

Table: ADMIN

Attribute	Provided in variable	Can be NULL?	Notes
Username	user	N	FK, must reference existing user
DeveloperFlag	flag	N	Default value of 0 == False
DeveloperType	devt	Y	

Creation

- Admins can add other admins
- The first admin in the database must be hard-coded

INSERT INTO ADMIN

VALUES (user, flag, devt);

Updating

- Depending on their permission levels, admins can update their own DeveloperFlag and, if applicable, their DeveloperType

UPDATE ADMIN

SET DeveloperFlag = flag

WHERE Username = user;

UPDATE ADMIN

SET DeveloperType = devt

WHERE Username = user;

Deleting

- Admins with certain permissions can remove other admins

DELETE FROM ADMIN

WHERE Username = user;

Table: ADMIN_RESPONSIBILITY

Attribute	Provided in variable	Can be NULL?	Notes
AdminUsername	user	N	FK, must reference existing admin
Responsibility	resp	N	updated responsibility name can be provided in variable new_resp

Creation

 Admin can add responsibility entries INSERT INTO ADMIN_RESPONSIBILITY VALUES (user, resp);

Updating

- Admin can update responsibility name UPDATE ADMIN_RESPONSIBILITY SET Responsibility = new_resp WHERE AdminUsername = user AND Responsibility = resp;

Deleting

 Admins can delete specific responsibilities by name or all responsibilities at once DELETE FROM ADMIN_RESPONSIBILITY
 WHERE AdminUsername = user
 AND Responsibility = resp;

DELETE FROM ADMIN_RESPONSIBILITY WHERE AdminUsername = user;

Table: DEV_SPECIALIZATION

Attribute	Provided in variable	Can be NULL?	Notes
AdminUsername	user	N	FK, must reference existing admin
Specialization	spec	N	updated specialization name can be provided in variable new_spec

Creation

 Developer can add specialization entries INSERT INTO DEV_SPECIALIZATION VALUES (user, spec);

Updating

Developer can update specialization name
 UPDATE DEV_SPECIALIZATION
 SET Specialization = new_spec
 WHERE AdminUsername = user
 AND Specialization = spec;

Deleting

 Developers can delete specific specializations by name or all specializations at once DELETE FROM DEV_SPECIALIZATION
 WHERE AdminUsername = user
 AND Specialization = spec;

DELETE FROM DEV_SPECIALIZATION WHERE AdminUsername = user;

Table: PERMISSION

Attribute	Provided in variable	Can be NULL?	Notes
PermissionLevel	perm	N	updated permission level can be provided in variable updated_perm

Creation

- Admin can add permission levels

INSERT INTO PERMISSION VALUES (perm);

Updating

- Admin can update permission level (if for example permission levels need to be rearranged)

UPDATE PERMISSION
SET PermissionLevel = updated_perm
WHERE PermissionLevel = perm;

Deleting

- Admin can delete specific permission level, but never all permissions at once DELETE FROM PERMISSION WHERE PermissionLevel = perm;

Table: PERMISSION_ABILITY

Attribute	Provided in variable	Can be NULL?	Notes
PermissionLevel	perm	N	FK, must reference existing permission level
Ability	abl	N	updated ability name can be provided in variable new_abl

Creation

 Admin can add abilities for a specific permission level INSERT INTO PERMISSION_ABILITY
 VALUES (perm, abl);

Updating

Admin can update ability name
 UPDATE PERMISSION_ABILITY
 SET Ability = new_abl
 WHERE PermissionLevel = perm
 AND Ability = abl;

Deleting

- Admins can only delete specific abilities by name, <u>not</u> all abilities for a permission level at once

DELETE FROM PERMISSION_ABILITY
WHERE PermissionLevel = perm
AND Ability = abl;

Table: ADMIN_HAS_PERM

Attribute	Provided in variable	Can be NULL?	Notes
AdminUsername	user	N	FK, must reference existing admin
PermLevel	IvI	N	FK, must reference existing permission level; updated permission level can be provided in variable new_lvl

Creation

- Admin able to assign a permission level to a specific admin INSERT INTO ADMIN_HAS_PERM VALUES (user, IvI);

Updating

- Admin can update a permission level for an admin UPDATE ADMIN_HAS_PERM SET PermLevel = new_lvl WHERE AdminUsername = user AND PermLevel = lvl;

Deleting

- Admins can only delete specific permission levels for an admin DELETE FROM ADMIN_HAS_PERM WHERE AdminUsername = user AND PermLevel = IvI;

Table: INTERVIEW

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
InterviewID	id	N	is an auto-incremented primary key
Stage	stg	Y	
DateTime	dt	N	
ApplicationName	apn	N	FK, must reference existing

		application for the applicant
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 Applicant can create a new interview, assigning all values (with Stage optionally left NULL) apart from InterviewID, as this is an auto-incremented primary key
 INSERT INTO INTERVIEW(ApplicantUsername, Stage, DateTime, ApplicationName)
 VALUES (user, stg, dt, apn);

Updating

- Applicant can update interview Stage, DateTime, and application being referenced UPDATE INTERVIEW

SET Stage = stg

WHERE ApplicantUsername = user

AND InterviewID= id;

UPDATE INTERVIEW

SET DateTime = dt

WHERE ApplicantUsername = user

AND InterviewID= id;

UPDATE INTERVIEW

SET ApplicationName = apn

WHERE ApplicantUsername = user

AND InterviewID= id;

Deleting

- Applicants can delete specific interviews

DELETE FROM INTERVIEW

WHERE ApplicantUsername = user

AND InterviewID= id;

Table: DOCUMENT

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
DocFileName	doc	N	updated file name can be provided in variable new_doc
DocType	type	Y	

- Applicant can create a new document INSERT INTO DOCUMENT VALUES (user, doc, type, desc);

Updating

 Applicant can update document file name, type, and description UPDATE DOCUMENT
 SET DocFileName = new_doc
 WHERE ApplicantUsername = user
 AND DocFileName = doc;

UPDATE DOCUMENT
SET DocType = type
WHERE ApplicantUsername = user
AND DocFileName = doc;

UPDATE DOCUMENT
SET Description = desc
WHERE ApplicantUsername = user
AND DocFileName = doc;

Deleting

Applicants can delete specific documents
 DELETE FROM DOCUMENT
 WHERE ApplicantUsername = user
 AND DocFileName = doc;

Table: APPLICATION

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
AName	name	N	updated application name can be provided in variable new_name
Notes	note	Y	
DateSubmitted	dsub	Y	

|--|

 Applicant can create a new application INSERT INTO APPLICATION VALUES (user, name, note, dsub, st);

Updating

 Applicant can update application name, notes, date submitted, status UPDATE APPLICATION
 SET AName = new_name
 WHERE ApplicantUsername = user
 AND AName = name;

UPDATE APPLICATION
SET Notes = note
WHERE ApplicantUsername = user
AND AName = name;

UPDATE APPLICATION
SET DateSubmitted = dsub
WHERE ApplicantUsername = user
AND AName = name;

UPDATE APPLICATION
SET Status = st
WHERE ApplicantUsername = user
AND AName = name;

Deleting

Applicants can delete specific applications
 DELETE FROM APPLICATION
 WHERE ApplicantUsername = user
 AND AName = name;

Table: APPL RELEVANT URL

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
AName	name	N	FK, must reference existing application

RelevantURL url N	updated URL can be provided in variable new_url
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- Applicant can add new URLs to an application INSERT INTO APPL_RELEVANT_URL VALUES (user, name, url);

Updating

Applicant can update an existing URL UPDATE APPL_RELEVANT_URL
 SET RelevantURL = new_url
 WHERE ApplicantUsername = user
 AND AName = name
 AND RelevantURL = url;

Deleting

 Applicants can delete specific URLs from an application or all URLs for an application at once

DELETE FROM APPL_RELEVANT_URL
WHERE ApplicantUsername = user
AND AName = name
AND RelevantURL = url;

DELETE FROM APPL_RELEVANT_URL WHERE ApplicantUsername = user AND AName = name;

Table: APPL CATEGORY

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
AName	name	N	FK, must reference existing application
Category	ctg	N	updated category name can be provided in variable new_ctg

Creation

- Applicant can assign new categories to an application INSERT INTO APPL_CATEGORY

VALUES (user, name, ctg);

Updating

Applicant can update an existing category

UPDATE APPL_CATEGORY

SET Category = new ctg

WHERE ApplicantUsername = user

AND AName = name

AND Category = ctg;

Deleting

Applicants can delete specific categories from an application or all categories for an application at once

DELETE FROM APPL_CATEGORY

WHERE ApplicantUsername = user

AND AName = name

AND Category = ctg;

DELETE FROM APPL_CATEGORY

WHERE ApplicantUsername = user

AND AName = name;

Table: COMPANY

Attribute	Provided in variable	Can be NULL?	Notes
CompanyName	comp	N	updated company name can be provided in variable new_comp
Industry	ind	Y	
HomePageURL	url	Y	
Description	desc	Y	

Creation

Applicant can add a new company if it does not exist **INSERT INTO COMPANY**

VALUES (comp, ind, url, desc);

Updating

- Applicant can update company name, industry, homepage url, and description **UPDATE COMPANY**

SET CompanyName = new_comp

WHERE CompanyName = comp;

UPDATE COMPANY
SET Industry = ind
WHERE CompanyName = comp;

UPDATE COMPANY
SET HomePageURL = url
WHERE CompanyName = comp;

UPDATE COMPANY
SET Description = desc
WHERE CompanyName = comp;

Deleting

- **Only admins** can fully delete companies, as there are multiple foreign key references to CompanyName throughout the database.

DELETE FROM COMPANY
WHERE CompanyName = comp;

Table: JOB

Attribute	Provided in variable	Can be NULL?	Notes
CompName	comp	N	FK, must reference existing company
PositionName	pos	N	updated position name can be provided in variable new_pos
Description	desc	Y	
JobPostFile	file	Y	
PositionType	type	Y	
ApplicationDeadline	deadline	N	
Salary	slr	Y	

Creation

- Applicant can create a new job if it does not exist INSERT INTO JOB VALUES (comp, pos, desc, file, type, deadline, slr);

Updating

- Applicant can update job name, description, job post file, position type, application deadline, and salary

UPDATE JOB

SET PositionName = new_pos WHERE CompName = comp AND PositionName = pos;

UPDATE JOB

SET Description = desc WHERE CompName = comp AND PositionName = pos;

UPDATE JOB

SET JobPostFile = file WHERE CompName = comp AND PositionName = pos;

UPDATE JOB

SET PositionType = type WHERE CompName = comp AND PositionName = pos;

UPDATE JOB

SET ApplicationDeadline = deadline WHERE CompName = comp AND PositionName = pos;

UPDATE JOB SET Salary = slr WHERE CompName = comp AND PositionName = pos;

Deleting

 Only admins can fully delete jobs, as there are multiple foreign key references to PositionName throughout the database.

DELETE FROM JOB
WHERE CompName = comp
AND PositionName = pos;

Table: JOB_QUALIFICATION

Attribute Provided in variable	Can be NULL?	Notes
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CompanyName	comp	N	FK, must reference existing company
PositionName	pos	N	FK, must reference existing position
Qualification	qual	N	updated qualification can be provided in variable new_qual

 Applicant can add new qualifications to a job INSERT INTO JOB_QUALIFICATION VALUES (comp, pos, qual);

Updating

Applicant can update an existing qualification
 UPDATE JOB_QUALIFICATION
 SET Qualification = new_qual
 WHERE CompanyName = comp
 AND PositionName = pos
 AND Qualification = qual;

Deleting

- Applicants can delete specific qualifications for a job, but <u>not</u> all qualifications at once DELETE FROM JOB_QUALIFICATION
WHERE CompanyName = comp
AND PositionName = pos
AND Qualification = qual;

Table: JOB RESPONSIBILITY

Attribute	Provided in variable	Can be NULL?	Notes
CompanyName	comp	N	FK, must reference existing company
PositionName	pos	N	FK, must reference existing position
Responsibility	resp	N	updated responsibility can be provided in variable new_resp

Creation

- Applicant can add new responsibilities to a job

INSERT INTO JOB_RESPONSIBILITY VALUES (comp, pos, resp);

Updating

Applicant can update an existing responsibility
 UPDATE JOB_RESPONSIBILITY
 SET Responsibility = new_resp
 WHERE CompanyName = comp
 AND PositionName = pos
 AND Responsibility = resp;

Deleting

- Applicants can delete specific responsibilities for a job, but <u>not</u> all responsibilities at once DELETE FROM JOB_RESPONSIBILITY

WHERE CompanyName = comp

AND PositionName = pos

AND Responsibility = resp;

Table: OFFER

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
OfferFileName	offern	N	updated offer file name can be provided in variable new_offern
ResponseDeadline	deadline	N	
Compensation	compens	Y	
StartDate	start	Y	
Notes	note	Y	
CompName	comp	N	FK, must reference existing company
PosName	pos	N	FK, must reference existing job

Creation

- Applicant can create a new offer

INSERT INTO OFFER

VALUES (user, offern, deadline, compens, start, note, comp, pos);

Updating

- Applicant can update offer name, response deadline, compensation, start date, notes, and job that the offer refers to

UPDATE OFFER

SET OfferFileName = new offern

WHERE ApplicantUsername = user

AND OfferFileName = offern;

UPDATE OFFER

SET ResponseDeadline = deadline WHERE ApplicantUsername = user AND OfferFileName = offern;

UPDATE OFFER

SET Compensation = compens WHERE ApplicantUsername = user AND OfferFileName = offern;

UPDATE OFFER

SET StartDate = start

WHERE ApplicantUsername = user

AND OfferFileName = offern;

UPDATE OFFER

SET Notes = note

WHERE ApplicantUsername = user

AND OfferFileName = offern;

UPDATE OFFER

SET CompName = comp, PosName = pos WHERE ApplicantUsername = user

AND OfferFileName = offern;

Deleting

- Applicants can delete specific offers

DELETE FROM OFFER

WHERE ApplicantUsername = user

AND OfferFileName = offern;

Table: CONTACT

|--|

ContactID	id	N	is an auto-generated primary key
LinkedInURL	url	Y	
Fname	fn	N	
Lname	In	N	

- Applicant can create a new contact, if they do not already exist based on first and last name, assigning all values (with LinkedInURL optionally left NULL) apart from ContactID, as this is an auto-generated primary key

INSERT INTO CONTACT(LinkedInURL, Fname, Lname) VALUES (url, fn, ln);

Updating

- Applicant can update contact LinkedInURL and first and last names

UPDATE CONTACT

SET LinkedInURL = url

WHERE ContactID = id;

UPDATE CONTACT

SET Fname = fn

WHERE ContactID = id;

UPDATE CONTACT

SET Lname = In

WHERE ContactID = id;

Deleting

- **Only admins** can fully delete contacts, as there are multiple foreign key references to ContactID throughout the database.

DELETE FROM CONTACT WHERE ContactID = id;

Table: CONTACT EMAIL

Attribute	Provided in variable	Can be NULL?	Notes
ContactID	id	N	FK, must reference existing contact
Email	em	N	updated email can be provided in variable

	new em
	IICW_CIII
	_

- Applicant can add new emails to a contact INSERT INTO CONTACT_EMAIL VALUES (id, em);

Updating

 Applicant can update an existing email UPDATE CONTACT_EMAIL
 SET Email = new_em
 WHERE ContactID = id
 AND Email = em;

Deleting

 Applicants can delete specific emails for a contact, but <u>not</u> all emails at once DELETE FROM CONTACT_EMAIL
 WHERE ContactID = id
 AND Email = em;

Table: CONTACT_PHONE

Attribute	Provided in variable	Can be NULL?	Notes
ContactID	id	N	FK, must reference existing contact
Phone	ph	N	updated phone can be provided in variable new_ph

Creation

- Applicant can add new phones to a contact INSERT INTO CONTACT_PHONE VALUES (id, ph);

Updating

 Applicant can update an existing phone UPDATE CONTACT_PHONE SET Phone = new_ph WHERE ContactID = id AND Phone = ph;

Deleting

- Applicants can delete specific phones for a contact, but <u>not</u> all phones at once

DELETE FROM CONTACT_PHONE WHERE ContactID = id AND Phone = ph;

Table: REFERRAL

Attribute	Provided in variable	Can be NULL?	Notes
ContID	contact	N	FK, must reference existing contact; updated contact can be provided in variable new_contact
ReferralID	refID	N	is an auto-incremented primary key
Date	date	Y	
Notes	note	Y	
ApplicantUsername	user	N	FK, must reference existing applicant
CompName	comp	N	FK, must reference existing company
PosName	pos	N	FK, must reference existing job

 When manipulating referrals, applicants should provide a contact's first name (variable fname) and last name (variable lname) to retrieve the contact's ContactID, using the following query:

SELECT ContactID FROM CONTACT WHERE Fname = fname AND Lname = Iname;

Creation

 Applicant can create a new referral, assigning all values (with Date and Notes optionally left NULL) apart from ReferralID, as this is an auto-incremented primary key
 INSERT INTO REFERRAL(ContID, Date, Notes, ApplicantUsername, CompName, PosName)
 VALUES (contact, date, note, user, comp, pos);

Updating

 Applicant can update the contact who issued the referral, as well as the referral date, notes, and job that the referral refers to UPDATE REFERRAL SET ContID = new_contact WHERE ReferralID = refID AND ContID = contact;

UPDATE REFERRAL
SET Date = date
WHERE ReferralID = refID
AND ContID = contact;

UPDATE REFERRAL SET Notes = note WHERE ReferralID = refID AND ContID = contact;

UPDATE REFERRAL
SET CompName = comp, PosName = pos
WHERE ReferralID = refID
AND ContID = contact;

Deleting

Applicants can delete specific referrals
 DELETE FROM REFERRAL
 WHERE ReferralID = refID
 AND ContID = contact;

Table: WORKS AT

Attribute	Provided in variable	Can be NULL?	Notes
CompName	comp	N	FK, must reference existing company
ContID	cont	N	FK, must reference existing contact
Role	role	Y	

 When manipulating entries, applicants should provide a contact's first name (variable fname) and last name (variable Iname) to retrieve the contact's ContactID, using the following query:

SELECT ContactID FROM CONTACT WHERE Fname = fname AND Lname = Iname;

 Applicant can add new WORKS_AT entries for a specific contact and company INSERT INTO WORKS_AT VALUES (comp, cont, role);

Updating

 Applicant can update an existing role for a contact at a company UPDATE WORKS_AT
 SET Role = role
 WHERE CompName = comp
 AND ContID = cont;

Deleting

 Applicants can delete specific roles for a contact, but <u>not</u> all roles at once DELETE FROM WORKS_AT
 WHERE CompName = comp
 AND ContID = cont;

Table: KNOWS

Attribute	Provided in variable	Can be NULL?	Notes
ContID	cont	N	FK, must reference existing contact
ApplicantUsername	user	N	FK, must reference existing applicant
Relationship	relation	Y	
Notes	note	Y	
LastContactDate	date	Y	

- When manipulating entries, applicants should provide a contact's first name (variable fname) and last name (variable Iname) to retrieve the contact's ContactID, using the following query:

SELECT ContactID FROM CONTACT WHERE Fname = fname AND Lname = Iname;

Creation

- Applicant can add entries for contacts that they know INSERT INTO KNOWS

VALUES (cont, user, relation, note, date);

Updating

 Applicant can update the relationship, notes, and last contact date for a specific contact that they know

UPDATE KNOWS

SET Relationship = relation

WHERE ApplicantUsername = user

AND ContID = cont;

UPDATE KNOWS

SET Notes = note

WHERE ApplicantUsername = user

AND ContID = cont;

UPDATE KNOWS

SET LastContactDate = date

WHERE ApplicantUsername = user

AND ContID = cont;

Deleting

- Applicants can delete specific entries for contacts that they know, but <u>not</u> all entries at once

DELETE FROM KNOWS

WHERE ApplicantUsername = user

AND ContID = cont;

Table: ATTENDS

Attribute	Provided in variable	Can be NULL?	Notes
ContID	cont	N	FK, must reference existing contact
ApplicantUsername	user	N	FK, must reference existing applicant
InterID	inter	N	FK, must reference existing interview

 When manipulating entries, applicants should provide a contact's first name (variable fname) and last name (variable lname) to retrieve the contact's ContactID, using the following query:

SELECT ContactID

FROM CONTACT
WHERE Fname = fname
AND Lname = Iname;

 Applicants should also provide the date and time of the specific interview (variable dayTime) to retrieve the interview's InterID, using the following query:

SELECT InterviewID FROM INTERVIEW WHERE ApplicantUsername = user AND DateTIme = daytime;

Creation

 Applicant can add entries for contacts that will attend specific interviews INSERT INTO ATTENDS
 VALUES (cont, user, inter);

Updating

- Since no additional information is tracked about contacts attending interviews, applicants are only able to create and delete entries; thus, no updating statements are possible

Deleting

 Applicants can delete specific contacts attending an interview, or all contacts attending an interview

DELETE FROM ATTENDS
WHERE ApplicantUsername = user
AND ContID = cont
AND InterID = inter;

DELETE FROM ATTENDS
WHERE ApplicantUsername = user
AND InterID = inter;

Table: MENTIONS

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
InterID	inter	N	FK, must reference existing interview
CompName	comp	N	FK, must reference existing company

PosName pos	N	FK, must reference existing job
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- When manipulating entries, applicants should provide the date and time of the specific interview (variable dayTime) to retrieve the interview's InterID, using the following query:

SELECT InterviewID

FROM INTERVIEW

WHERE ApplicantUsername = user

AND DateTIme = daytime;

Creation

- Applicant can add entries for positions that are mentioned in specific interviews INSERT INTO MENTIONS

VALUES (user, inter, comp, pos);

Updating

 Since no additional information is tracked about jobs being mentioned in interviews, applicants are only able to create and delete entries; thus, no updating statements are possible

Deleting

- Applicants can delete specific jobs mentioned in an interview, but <u>not</u> all jobs mentioned at once, as an interview must be related to and thus mention at least one job

DELETE FROM MENTIONS

WHERE ApplicantUsername = user

AND InterID = inter

AND CompName = comp

AND PosName = pos;

Table: SUBMIT_WITH

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
DocFile	doc	N	FK, must reference existing document
ApplicationName	apl	N	FK, must reference existing application

Creation

- Applicant can add entries for documents submitted with specific applications

INSERT INTO SUBMIT_WITH VALUES (user, doc, apl);

Updating

 Since no additional information is tracked about documents being submitted with an application, applicants are only able to create and delete entries; thus, no updating statements are possible

Deleting

 Applicants can delete entries for specific documents mentioned in specific applications, all documents mentioned in a specific application, or all applications that mention a specific document

DELETE FROM SUBMIT_WITH
WHERE ApplicantUsername = user
AND DocFile = doc
AND ApplicationName = apl;

DELETE FROM SUBMIT_WITH WHERE ApplicantUsername = user AND ApplicationName = apl;

DELETE FROM SUBMIT_WITH WHERE ApplicantUsername = user AND DocFile = doc;

Table: CORRESPONDS TO

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
ApplicationName	apl	N	FK, must reference existing application
CompName	comp	N	FK, must reference existing company
PosName	pos	N	FK, must reference existing job
JobPostURL	url	Y	

Creation

- Applicant can add entries for jobs that correspond to specific applications INSERT INTO CORRESPONDS_TO

VALUES (user, apl, comp, pos, url);

Updating

- Applicant can update the job post URL for a specific job mentioned in a specific application, or for a specific job mentioned in all the applicant's applications

UPDATE CORRESPONDS TO

SET JobPostURL = url

WHERE ApplicantUsername = user

AND ApplicationName = apl

AND CompName = comp

AND PosName = pos;

UPDATE CORRESPONDS TO

SET JobPostURL = url

WHERE ApplicantUsername = user

AND CompName = comp

AND PosName = pos;

Deleting

 Applicants can delete specific jobs corresponding to an application, but <u>not</u> all jobs mentioned at once, as an application must correspond to and thus mention at least one job

DELETE FROM CORRESPONDS_TO

WHERE ApplicantUsername = user

AND ApplicationName = apl

AND CompName = comp

AND PosName = pos;

Table: TRACKS

Attribute	Provided in variable	Can be NULL?	Notes
ApplicantUsername	user	N	FK, must reference existing applicant
CompName	comp	N	FK, must reference existing company
PosName	pos	N	FK, must reference existing job
Notes	note	Y	
DateToApply	date	Y	

Creation

- Applicant can add specific jobs that they want to track INSERT INTO TRACKS

VALUES (user, comp, pos, note, date);

Updating

- Applicant can update notes and date to apply for a specific job that they track

UPDATE TRACKS

SET Notes = note

WHERE ApplicantUsername = user

AND CompName = comp

AND PosName = pos;

UPDATE TRACKS

SET DateToApply = date

WHERE ApplicantUsername = user

AND CompName = comp

AND PosName = pos;

Deleting

- Applicants can delete entries for specific jobs that they track

DELETE FROM TRACKS

WHERE ApplicantUsername = user

AND CompName = comp

AND PosName = pos;