Cs 238

Andrew Siebert

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Group 4

Project Phase 2

Logical Database Design

Member:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| User\_id | Username | Password | Email | NumSkills |

Employer:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Id | Name | Company\_Name | Zipcode | State | City | Street |

DevSkills:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Agile | ScrumAgile | Waterfall | VirusRemoval | SysSetup | TroubleShooting | HardwareInstall | IOS | CMS | Linux | Windows |

Networking Skills (HssSkills):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | NetworkSetup | LAN | VPN | Printers |

CommunicationSkills:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | PublicSpeaking | Reporting | Bilingual | TeachingSkills |

LaboratorySkills:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | MaterialSafety | SolutionPrep | ReactionEquations | DevelopingExperiments |

MiscSkills:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Standing | ee | cpe | phy | chem | amath | none | PartTime | FullTime | intern | multIntern | coop | multCoop | research |

PhysicsSkills:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Quantum | CondensedMatterPhysics | Optics | Electromagnetics | Thermodynamics |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Netbeans | VisualStudio | Eclipse | CodeBlocks | RapidSQL | Delphi | Xcode | Padre | vim |

IDESkills:

MathSkills:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Statistics | Calculus | DifferentialEquations | LinearAlgebra | ActuarialScience | Accounting |

ChemSkills:

|  |  |  |
| --- | --- | --- |
| ID | Organic | KineticsOfChemicalChange |

ProgrammingSkills:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | C++ | C# | Java | Python | PHP | Perl | Javascript | Ruby | CSS | Fortran | QT | Ect… |

Resume:

|  |  |  |
| --- | --- | --- |
| ID | PathURL | Expire\_Date |

Members:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Type** | **Description** |
| User\_id | String | Primary Key for Users. ID's ordered chronologically by creation Date |
| Username | String | Login name for user |
| Password | String | Password for user |
| Email | String | Email for user |

Employer:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Type** | **Description** |
| ID | Integer | Primary Key for Employers. ID's ordered chronologically by creation Date |
| Name | String | Name for Employers |
| Company\_Name | String | Name of Company |
| Zipcode | String | Email for user |
| State | Sting | State company is located in |
| City | String | City company is located in |
| Street | String | Street address of the company |

IDESkills: (All of the Skills tables, with the exception of the MiscSkills table, follow this same format of foreign Key to the Members table and a list of Boolean values for specific skills.)

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Type** | **Description** |
| ID | Integer | Foreign Key to User. ID's ordered chronologically by creation Date |
| Netbeans | Bool | 0 is the skill is not held by the user, 1 if the user does have the skill. |
| VisualStudio | Bool | 0 is the skill is not held by the user, 1 if the user does have the skill. |
| Eclipse | Bool | 0 is the skill is not held by the user, 1 if the user does have the skill. |
| CodeBlocks | Bool | 0 is the skill is not held by the user, 1 if the user does have the skill. |
| RapidSQL | Bool | 0 is the skill is not held by the user, 1 if the user does have the skill. |
| Delphi | Bool | 0 is the skill is not held by the user, 1 if the user does have the skill. |
| Xcode | Bool | 0 is the skill is not held by the user, 1 if the user does have the skill. |
| Padre | Bool | 0 is the skill is not held by the user, 1 if the user does have the skill. |
| vim | Bool | 0 is the skill is not held by the user, 1 if the user does have the skill. |

MiscSkills:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Type** | **Description** |
| ID | Integer | Primary Key for Employers. ID's ordered chronologically by creation Date |
| Standing | String | String Describing the year the student is in. |
| ee | Bool | 0 is the Attribute is false for the user, 1 otherwise. |
| cpe | Bool | 0 is the Attribute is false for the user, 1 otherwise. |
| phy | Bool | 0 is the Attribute is false for the user, 1 otherwise. |
| compSci | Bool | 0 is the Attribute is false for the user, 1 otherwise. |
| chem | Bool | 0 is the Attribute is false for the user, 1 otherwise. |
| amath | Bool | 0 is the Attribute is false for the user, 1 otherwise. |
| none | Bool | 1 if the above major attributes are all false, 0 otherwise |
| PartTime | Bool | 1 if the user has part time experience |
| FullTime | Bool | 1 if the user has full time experience |
| Intern | Bool | 1 if the user has intern experience |
| MultIntern | Bool | 1 if the user has multiple intern experiences |
| Coop | Bool | 1 if the user has coop experience |
| MultCoop | Bool | 1 if the user has multiple coop experiences |
| Research | Bool | 1 if the user has Research experience |

Resume:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Type** | **Description** |
| ID | Integer | Foreign Key to User. ID's ordered chronologically by creation Date |
| Path\_URL | String | Path to download link for resume. |
| Expiration\_Date | Date/Time | Computed value. Set to 1 year after the date uploaded. |