

HIT237 ASSIGNMENT 2

Documentation for WA Mine Site Directory

Please Note: Extension granted via email on 5/5/20 for one week until Friday midnight 29/05/20



WA Mine Site Directory

Home

Mine Sites ▾

Companies ▾

Minerals ▾

About the WA Mine Site Directory

The principle topic of the site are Western Australian mine sites. These sites have a number of characteristics, of which the lease holding company and type of minerals being mined are arguably two of the most important.

James Beamish s324587 - HIT237 Assignment 2

James Beamish
S324587

Table of Contents

| | | |
|------------|---|----------|
| 1.0 | <i>Entity Relationship Diagram</i> | 2 |
| 2.0 | <i>Data Dictionary</i> | 2 |
| 3.0 | <i>User Guide</i> | 4 |
| 1. | To Add a new Mineral | 4 |
| 2. | To Update an existing Mineral..... | 6 |
| 3. | To Delete a Mineral..... | 7 |

1.0 Entity Relationship Diagram

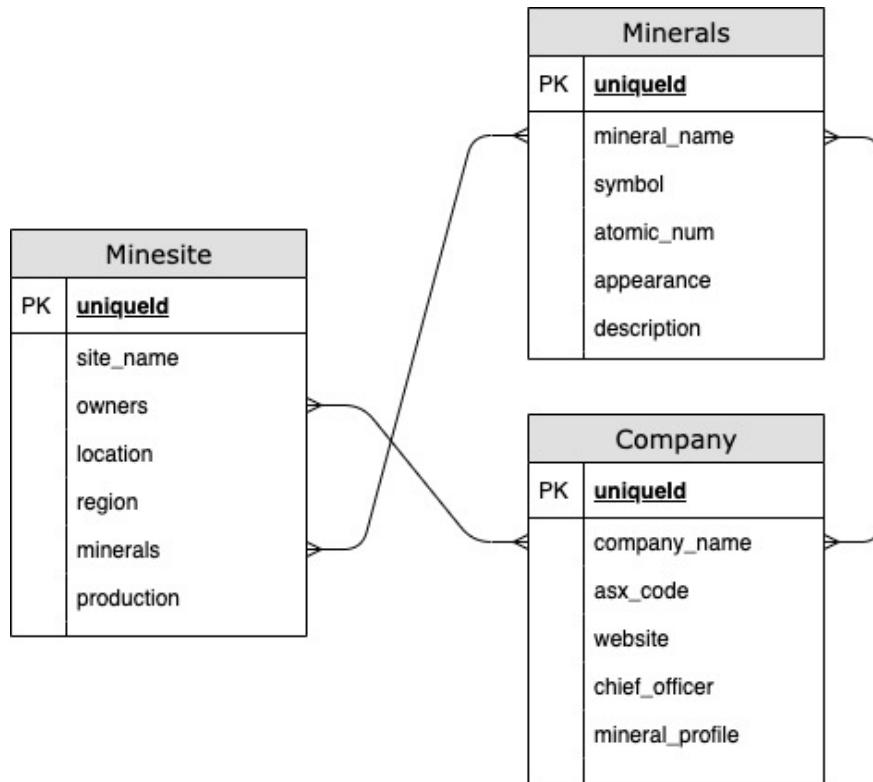


Figure 1.1: Entity Relationship Diagram for beamish2_app ‘WA Mine Site Directory’.

2.0 Data Dictionary

| class Minerals | | | | | |
|----------------|---------|-----------|-----------------------|---|---------------------------------|
| Name | Type | Size | Constraints | Description | Example |
| mineral_name | String | 25 | Not Null | Unique name for each element / mineral | Copper |
| symbol | String | 3 | Not Null | Unique symbol for each element | Cu |
| atomic_num | Numeric | 10 | Not Null: Has Default | Atomic number for each element | 29 |
| appearance | String | 25 | Not Null | Scientific term for describing appearance | Copper, metallic |
| description | String | unlimited | Not Null: Has Default | | “Copper is one of the most ...” |

| class Company | | | | | |
|----------------------|--------|------|-----------------------|-----------------------------------|---|
| Name | Type | Size | Constraints | Description | Example |
| company_name | String | 50 | Not Null | Company name | Mincor |
| asx_code | String | 8 | Not Null: Has Default | Australian stock exchange code | MCR |
| website | URL | | Validated | Company website | https://www.mincor.com.au |
| chief_officer | String | 50 | Not Null | CEO of company | Brett Lambert |
| mineral_profile | String | 25 | Not Null | All minerals mined by the company | Gold Nickel Copper |

| class Minesite | | | | | |
|-----------------------|---------|------|-----------------------|--|------------------|
| Name | Type | Size | Constraints | Description | Example |
| site_name | String | 50 | Not Null | Name of mine site | Frogs Legs |
| owners | String | 50 | Not Null | Current owners / lease holders | Evolution Mining |
| location | String | 25 | Not Null | Nearest town to mine site | Mungari |
| region | String | 25 | Not Null | Regional area site presides in | Goldfields |
| minerals | String | 25 | Not Null | Minerals mined at the site | Gold |
| production | Numeric | 10 | Not Null: Has Default | Total production from the site (troy ounces) | 560, 000 tonnes |

3.0 User Guide

1. To Add a new Mineral

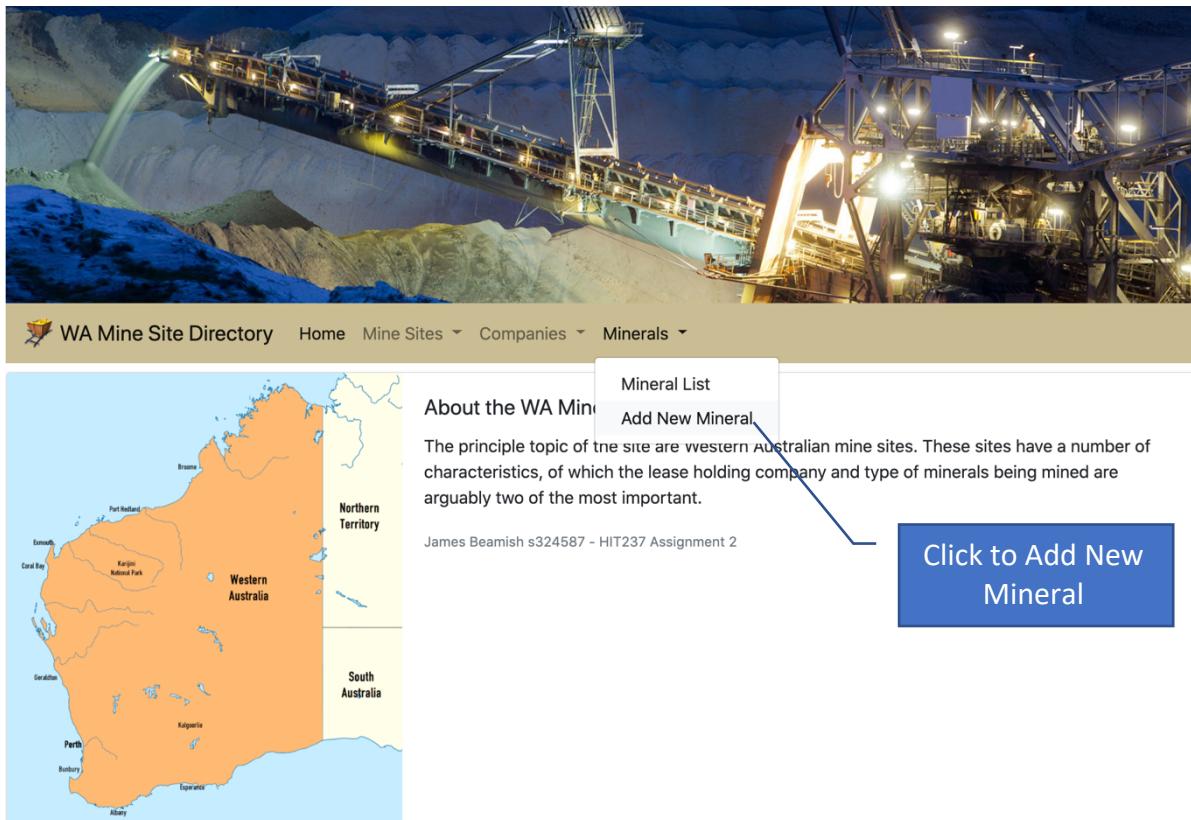


Image 3.1.1: From anywhere in the website, click 'Minerals' then 'Add New Mineral'

The screenshot shows a form titled 'Please enter new Mineral details'. It includes fields for 'Mineral name' (with placeholder 'Enter Fun Facts Here!'), 'Symbol', 'Atomic num.', and 'Appearance'. There is a large text area for 'Description' and a 'Fun Facts' section. At the bottom is a 'Add Mineral' button and a blue callout box pointing to it with the text 'Click to post new entry'.

Image 3.1.2: Enter fields for the new mineral. Once completed, click 'Add Mineral' to add to database. Please note that Mineral name and symbol are unique fields and will not allow an entry to be created if it already exists.

HIT237: Assignment 2 - Documentation

Please enter new Mineral details

Mineral name: Gold
Symbol: Au
Atomic num: 23
Appearance: gold

• Minerals with this Mineral name already exists.

Enter Fun Facts Here!

Description:

Mineral already exists

Add Mineral

Image 3.1.3: Form will not submit because Gold already exists in the database.



WA Mine Site Directory Home Mine Sites Companies Minerals

| Mineral | Symbol | Atomic # | |
|---------|--------|----------|---|
| Gold | Au | 79 | Update / Delete |
| Nickel | Ni | 28 | Update / Delete |
| Iron | Fe | 26 | Update / Delete |
| Lithium | Li | 3 | Update / Delete |
| Silver | Ag | 47 | Update / Delete |
| Copper | Cu | 29 | Update / Delete |

Image 3.1.4: Upon successful addition of the new mineral, user is redirected back to the mineral list page.

2. To Update an existing Mineral



WA Mine Site Directory Home Mine Sites ▾ Companies ▾ Minerals ▾

| Mineral | Symbol | Atomic # | |
|---------|--------|----------|------------------------|
| Gold | Au | 79 | Update / Delete |
| Nickel | Ni | | Update / Delete |
| Iron | Fe | 26 | Update / Delete |
| Lithium | Li | 3 | Update / Delete |
| Silver | Ag | 47 | Update / Delete |
| Copper | Cu | 29 | Update / Delete |

Select Update

A blue callout box labeled "Select Update" is positioned over the "Update" button for the Iron entry (Atomic # 26). A blue line connects this callout to the "Update" button for the same entry in the list above.

Image 3.2.1: Select the appropriate ‘Update’ button for the entry requiring modification.

WARNING! YOU ARE ABOUT TO UPDATE AN ENTRY! PROCEED WITH CAUTION!

| | |
|---------------|--|
| Mineral name: | Lithium |
| Symbol: | Li |
| Atomic num: | 3 |
| Appearance: | silvery white/grey |
| Description: | <p>Fun Fact:</p> <p>Lithium does not occur as the free metal in nature because of its high reactivity. Deposits are known all around the world. It is a minor component of nearly all igneous rocks and is a component of many natural brines. ref - https://www.webelements.com/</p> |

Submit Updates

Update

A blue line connects the "Update" button in the "Description" field to the "Update" button in the "Submit Updates" box.

Image 3.2.2: Make any appropriate changes, then select ‘Update’. User will then be taken back to the Minerals List as per Image 3.2.1.

3. To Delete a Mineral



WA Mine Site Directory Home Mine Sites ▾ Companies ▾ Minerals ▾

| Mineral | Symbol | Atomic # | |
|---------|--------|----------|---|
| Gold | Au | 79 | Update / Delete |
| Nickel | Ni | 28 | Update / Delete |
| Iron | Fe | 26 | Update / Delete |
| Lithium | Li | 3 | Update / Delete |
| Silver | Ag | 47 | Update / Delete |
| Copper | Cu | 29 | Update / Delete |

A blue callout box labeled "Select Delete" points to the "Delete" button for the Lithium entry.

Image 3.3.1: On the Minerals List page, select the delete button for the desired page to delete.

WARNING! YOU ARE ABOUT TO DELETE AN ENTRY! PROCEED WITH CAUTION!

| | |
|---------------|--|
| Mineral name: | <input type="text" value="Lithium"/> |
| Symbol: | <input type="text" value="Li"/> |
| Atomic num: | <input type="text" value="3"/> |
| Appearance: | <input type="text" value="silvery white/grey"/> |
| Description: | Fun Fact: Lithium does not occur as the free metal in nature because of its high reactivity. Deposits are known all around the world. It is a minor component of nearly all igneous rocks and is a component of many natural brines. ref - https://www.webelements.com/ |

A blue callout box labeled "Confirm and press Delete" points to the "Delete" button at the bottom left of the form.

Image 3.3.2: User should confirm that they wish to delete the displayed form before selecting 'Delete' to finalise deletion.



WA Mine Site Directory [Home](#) [Mine Sites](#) ▾ [Companies](#) ▾ [Minerals](#) ▾

| Mineral | Symbol | Atomic # | |
|---------|--------|----------|---|
| Gold | Au | 79 | Update / Delete |
| Nickel | Ni | 28 | Update / Delete |
| Iron | Fe | 26 | Update / Delete |
| Silver | Ag | 47 | Update / Delete |
| Copper | Cu | 29 | Update / Delete |

Image 3.3.3: User is then re-directed to the Minerals List page. Record has now been deleted.