To: Judson Murray

From: Keenan Allcott

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Subject: Database Programming Proposal Demo

I want to make an app that displays what fruit are in season and what country they come from. This graphic serve as an inspiration, however my own artistic ability may vary.

Timeline

Description automatically generated with medium confidence

Database Contains:

* Fruit
* Month
* Regions
* Users

Relationships:

* Fruits are in season across many Months
* Months have many fruits in season.
* Fruits may belong to many regions of origin, but have only one largest producer (country)
* A country belongs to many fruits.

Business Rules:

* Only User admins may access maintenance databases
* Taiwan must not be considered a region
* Fruits can be categorized as “all” but must behave as if all seasons are selected.

Sources of Data:

What fruit are in season

<https://www.berries.com/blog/what-fruits-are-in-season>

Geography of Fruit:

* <https://www.youtube.com/watch?v=hu6Y-gTZtzc&t=9s>
* <https://www.youtube.com/watch?v=MOG1sK2_SaI>

Geographic Data

|  |  |  |  |
| --- | --- | --- | --- |
| Fruit | Origin | Largest Producer | Season |
| Apples | China, Kazakhstan, Kyrgyzstan | China | Aug, Sept, Oct |
| Apricots | Armenia, India, China | Uzbekistan | May, Jun, Jul |
| Avocados | Mexico | Mexico | All |
| Bananas | Indomalaya | India | All |
| Plantains | Indomalaya | India | All |
| Blueberries | Canada | US | Jun, Jul |
| Cantaloupes | Persia, Afghanistan, Armenia | China | Jun, Jul, Aug |
| Cherries | Central Europe | Turkey | Apr, May, Jun, Jul |
| Clementines | Algeria | China | Dec, Jan, Feb, oct, Nov |
| Coconut | Sri Lanka, Maldives, Philippines, Indonesia | Indonesia | All |
| Cranberries | Canada, US | US | Sept, oct, Nov |
| Dates | Iraq | Egypt | Sept, oct, Nov, dec |
| Fig | Iraq | Turkey | Jun, Jul, Aug, Sept |
| Grapefruit | Barbados | China | Nov, Dec, Jan, Feb, Mar |
| Grapes | Middle East | China | Aug, Sept, Oct |
| Guavas | Mexico, Central South America | India | Oct, Nov, Dec |
| Papayas | Mexico, Central South America | India | All |
| Honeydew | Algeria | China | Aug, Sept, Oct |
| Kiwis | China | China | All |
| Kumquat | Southeast Asia | India | Jan, Feb, Mar, Apr |
| Lemons | India | India | Dec, Jan, Feb, Mar, Nov |
| Limes | Southeast Asia | India | May, Jun, Jul, Aug, Sept |
| Mango | Southeast Asia | India | May, Jun, Jul, Aug, Sept |
| Olives | Italy | Spain | Oct, Nov, Dec, Jan |
| Passionfruit | Brazil, Paraguay, Argentina | Brazil | All |
| Peaches | China | China | May, Jun, Jul, Aug, Sept |
| Pear | China | China | Jul, Aug, Sept, Oct |
| Pineapples | Brazil, Paraguay | Costa Rica | Mar, Apr, May, Jun, Jul |
| Plums | Eastern Europe, Caucasus Mountains | China | May, Jun, Jul, Aug, Sept, Oct, |
| Pomegranates | Iran | Iran | Dec, Jan, Feb, Oct, Nov |
| Raspberries | Turkey | Russia | Jun, Jul, Aug, Sept, Oct, Nov |
| Strawberry | France | US | Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov |
| Tomatoes | Andes Mountains | China | May, Jun, Jul, Aug, Sept, Oct |
| Watermelon | Ethiopia | China | Jun, Jul, Aug |
| Tamarind | Tropical Africa | India | Jan, Feb, March |
| Aki | Tropical Africa | Jamaica | Jan, Feb, Mar, Jun, Jul, Aug |
| Squash | Meso-America | China | Dec, Jan, Feb, Jun, Jul, Aug |
| Pumpkins | Meso-America | China | Sept, Aug, Nov |
| Zucchini | Meso-America | China | May, Jun, Jul, Aug, Sept |
| Peppers | Meso-America | China | All |
| Dragon Fruit | Meso-America | Vietnam | Jan, Feb, Mar, Apr |
| Mandarin | China | China | Dec, Jan, Feb, Mar, Nov |