Fishlocale

Logical Database Design

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| Fish (  fishName -VARCHAR (15), NOT NULL, - fish name  ave\_wgt – INTEGER (4), NOT NULL, - average weight of the fish  picture – IMAGE, NOT NULL, - Picture of fish  )  Primary Key fishName |

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| Record (  fishName -VARCHAR (15), NOT NULL, - fish name  b\_o\_w – VARCHAR (25), NOT NULL, - body of water  weight – INTEGER (4) – DEFAULT NULL, - weight of record fish  line – INTEGER (3) – DEFAULT NULL – weight of line used  )  Foreign Key fishName References fishName(Fish)ON UPDATE CASCADE ON DELETE CASCADE  Foreign Key b\_o\_w References b\_o\_w(Fish) ON UPDATE CASCADE ON DELETE CASCADE |

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| Family (  fishName -VARCHAR (15), NOT NULL, - fish name  famName – VARCHAR (15), NOT NULL – fish family name  )  Foreign Key fishName References fishName(Fish) ON UPDATE CASCADE ON DELETE CASCADE |

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| Alias (  fishName -VARCHAR (15), NOT NULL, - fish name  aliasName – VARCHAR (15), DEFAULT NULL – alias’ or nick names for fish  )  Foreign Key fishName References fishName(Fish) ON UPDATE CASCADE ON DELETE CASCADE |

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| Bait (  fishName -VARCHAR (15), NOT NULL, - fish name  baitName – VARCHAR (15), NOT NULL – name of bait  description – TEXT – description of bait  )  Primary Key baitName  Foreign Key fishName references fishName(Fish) ON UPDATE CASCADE ON DELETE SET NULL |

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| Artificial (  baitName – VARCHAR (15), NOT NULL – name of bait  size – VARCHAR – size of bait  color – VARCHAR – color of bait  )  Primary Key baitName |

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| Natural (  baitName – VARCHAR (15), NOT NULL – name of bait  )  Primary Key baitName |

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| Location (  lat - FLOAT (10, 6) -, NOT NULL, - latitude coordinates  lng - FLOAT (10, 6) -, NOT NULL – longitude coordinates  b\_o\_w -VARCHAR (25) -, NOT NULL, body of water  state – VARCHAR (15) – DERIVED FROM lat and lng – state body of water is in  county – VARCHAR (15) – DERIVED FROM lat and lng – county body of water is in  fishName – VARCHAR (15) – NOT NULL – fish name  )  Primary Key (lat, lng)  Foreign Key fishName – References fishName(Fish)ON UPDATE CASCADE ON DELETE SET NULL |

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| Boat (  boat\_only – BOOL – is location accessible by boat only  lat - FLOAT (10, 6) -, NOT NULL, - latitude coordinates  lng - FLOAT (10, 6) -, NOT NULL – longitude coordinates  )  Primary Key (lat, lng) |
| Bank (  bank – BOOL – is location accessible to bank fish  lat - FLOAT (10, 6) -, NOT NULL, - latitude coordinates  lng - FLOAT (10, 6) -, NOT NULL – longitude coordinates  )  Primary Key (lat, lng) |

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| fishLog (  logNum – INTEGER (5) – NOT NULL AUTO INCREMENT– Log number  fishName – VARCHAR (15) – NOT NULL – fish name  b\_o\_w – VARCHAR (25) – NOT NULL – body of water  weight – INTEGER (4) – DEFAULT NULL – weight of fish  notes – TEXT (255) – DEFAULT NULL – User notes  )  Primary Key logNum  Foreign Key fishName – References fishName(Fish)ON UPDATE CASCADE ON DELETE NO ACTION  Foreign Key b\_o\_w – References b\_o\_w(Location) ON UPDATE CASCADE ON DELETE NO ACTION |