

HW1 - Jin Kweon (3032235207)

Jin Kweon

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1. How many tons was the sunken ship Delaware?

Query:

```
SELECT TONNAGE
FROM SHIPWRCK
WHERE SHIP_NAME = 'DELAWARE'
;
```

Ans:

TONNAGE
1646

2. What is customer Karen Ngs address?

Query:

```
SELECT STREET, CITY, STATE_PROV, ZIP_POSTAL_CODE, COUNTRY
FROM DIVECUST
WHERE NAME = "KAREN NG"
;
```

Ans:

STREET	CITY	STATE_PROV	ZIP_POSTAL_CODE	COUNTRY
2134 Elmhill Pike	Klamath Falls	OR	97603	U.S.A.

3. At what destination and site(s) might you find a Spotted Eagle Ray?

==> Key point:

CONNECT BIOLIFE'S SPECIES_NO WITH BIOSITE'S SPECIES_NO,
THEN,
CONNECT BIOSITE'S SITE_NO WITH SITES' SITE_NO,
THEN,
CONNECT SITES' DESTINATION_NO WITH DEST'S DESTINATION_NO.

```
SELECT BIOLIFE.COMMON_NAME, DEST.DESTINATION_NAME, SITES.SITE_NAME
FROM BIOLIFE
JOIN BIOSITE
ON BIOSITE.SPECIES_NO = BIOLIFE.SPECIES_NO
JOIN SITES
ON SITES.SITE_NO = BIOSITE.SITE_NO
JOIN DEST
ON DEST.DESTINATION_NO = SITES.DESTINATION_NO
WHERE BIOLIFE.COMMON_NAME = "SPOTTED EAGLE RAY"
;
```

Ans:

COMMON_NAME	DESTINATION_NAME	SITE_NAME
Spotted Eagle Ray	Florida	Middle Sambo
Spotted Eagle Ray	Florida	Coffin's Patch
Spotted Eagle Ray	Florida	Conch Wall
Spotted Eagle Ray	Florida	French Reef
Spotted Eagle Ray	Florida	Crocker Valley
Spotted Eagle Ray	Florida	Davis Ledge
Spotted Eagle Ray	New Jersey	Lizzie D
Spotted Eagle Ray	New Jersey	Great Isaac
Spotted Eagle Ray	New Jersey	Pinta
Spotted Eagle Ray	New Jersey	Mohawk
Spotted Eagle Ray	New Jersey	Stolt Dagali
Spotted Eagle Ray	New Jersey	R.P. Resor
Spotted Eagle Ray	New Jersey	Delaware
Spotted Eagle Ray	New Jersey	Tolten

4. Where (what destination) is the site Palancar Reef?

Query:

```
SELECT DEST.DESTINATION_NAME, SITES.SITE_NAME
FROM DEST
    INNER JOIN SITES
        ON DEST.DESTINATION_NO = SITES.DESTINATION_NO
WHERE SITE_NAME = "PALANCAR REEF"
;
```

Ans:

DESTINATION_NAME	SITE_NAME
Cozumel	Palancar Reef

5. What sites might Lorraine Vega dive on her trip?

Query:

```
SELECT DIVECUST.NAME, SITES.SITE_NAME
FROM DIVECUST
  JOIN DIVEORDS
    ON DIVEORDS.CUSTOMER_NO = DIVECUST.CUSTOMER_NO
  JOIN DEST
    ON DEST.DESTINATION_NAME = DIVEORDS.DESTINATION
  JOIN SITES
    ON SITES.DESTINATION_NO = DEST.DESTINATION_NO
WHERE DIVECUST.NAME = "LORRAINE VEGA"
;
```

Ans:

NAME	SITE_NAME
Lorraine Vega	Palancar Reef
Lorraine Vega	Santa Rosa Reef
Lorraine Vega	Chancanab Reef
Lorraine Vega	Punta Sur
Lorraine Vega	Yocab Reef

6. Keith Lucas wants to see a shipwreck on his trip. Is he going to the right place?

==> Key point:

Since the question is asking whether Keith Lucas is going to the right place to see a shipwreck, I am going to see whether he can actually see any shipwreck by selecting ship name and date ship sunk.

Query:

```
SELECT DIVECUST.NAME, SHIPWRCK.SHIP_NAME, SHIPWRCK.DATE_SUNK
FROM DIVECUST
  JOIN DIVEORDS
    ON DIVEORDS.CUSTOMER_NO = DIVECUST.CUSTOMER_NO
  JOIN DEST
    ON DEST.DESTINATION_NAME = DIVEORDS.DESTINATION
  JOIN SITES
    ON SITES.DESTINATION_NO = DEST.DESTINATION_NO
  JOIN SHIPWRCK
```

```
ON SHIPWRCK.SITE_NO = SITES.SITE_NO  
WHERE DIVECUST.NAME = "KEITH LUCAS"  
;
```

Ans:

Empty Set... Thus, he is not going to the right direction...

NAME	SHIP_NAME
------	-----------

7. What equipment is Richard Denning getting?

Query:

```
SELECT DIVECUST.NAME, DIVEITEM.LINE_NOTE, DIVESTOK.DESCRPTION, DIVESTOK.EQUIPMENT_CLASS, DIVESTOK.ITEM,  
FROM DIVECUST  
  
JOIN DIVEORDS  
  
ON DIVEORDS.CUSTOMER_NO = DIVECUST.CUSTOMER_NO  
  
JOIN DIVEITEM  
  
ON DIVEITEM.ORDER_NO = DIVEORDS.ORDER_NO  
  
JOIN DIVESTOK  
  
ON DIVESTOK.ITEM_NO = DIVEITEM.ITEM_NO  
WHERE DIVECUST.NAME = "RICHARD DENNING"  
;
```

Ans:

NAME	LINE_NOTE	DESCRIPTION	EQUIPMENT_CLASS	ITEM_NO
Richard Denning	NULL	Shotgun 2 Snorkel - Clear	Snorkel	90010
Richard Denning	NULL	Tri-Vent Mask - Clear	Mask	90020
Richard Denning	NULL	Sea Wing Fins - Clear	Fins	90030
Richard Denning	NULL	Snorkeling Vest - Red	Buoyancy	90056
Richard Denning	NULL	Quick Release Weight Belt	Buoyancy	90059
Richard Denning	NULL	71.4cf Chromemoly Tank, Slim Tank		90061

8. What is the cost of the equipment rental for Louis Jazdzewski.

Query:

```
SELECT DIVECUST.NAME, DIVEITEM.RENTAL_SALE, SUM(DIVESTOK.RENTAL_PRICE * DIVEITEM.QTY) AS "TOTAL COST"
FROM DIVECUST
    JOIN DIVEORDS
        ON DIVEORDS.CUSTOMER_NO = DIVECUST.CUSTOMER_NO
    JOIN DIVEITEM
        ON DIVEITEM.ORDER_NO = DIVEORDS.ORDER_NO
    JOIN DIVESTOK
        ON DIVESTOK.ITEM_NO = DIVEITEM.ITEM_NO
WHERE DIVECUST.NAME = "LOUIS JAZDZEWSKI" AND DIVEITEM.RENTAL_SALE = "RENTAL"
;
```

Ans:

NAME	RENTAL SALE	TOTAL COST
Louis Jazdzewski	Rental	82