

Intro to SQL Advanced Management

Subqueries



Question:

What accessories sell for less than the elephant tie?

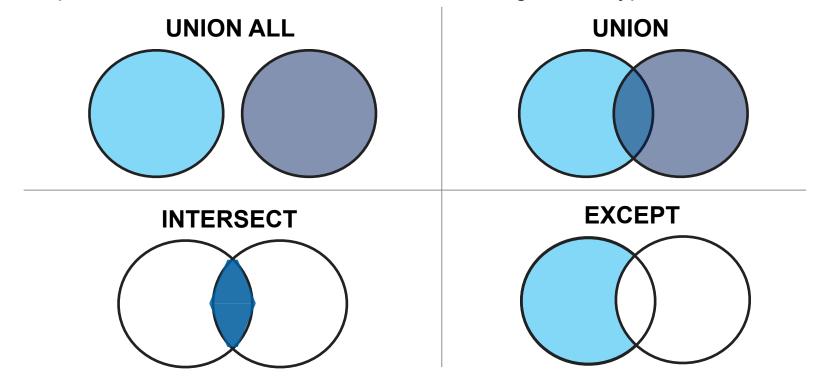
```
SELECT name, sales_price FROM item_details
   WHERE department = 'accessories'
   AND sales_price <
        (SELECT sales_price FROM item_details
        WHERE name LIKE '%elephant%');</pre>
```

name	sales_price	
peacock feather hat	34.9900	
leopard-print scarf	14.4900	
aardvark earrings	9.9900	

Set Operations



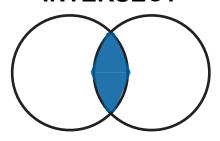
Set operators used to combined tables containing similar types of information



Set Operations: INTERSECT



INTERSECT



```
SELECT id, name FROM inventory
INTERSECT
SELECT id, name FROM new_shipment;
```

id	name
12	manatee tank top
15	bow tie, ants marching

Math Functions



Question:

Using these lengths as the diameter, what are the circumference, area, and volume of the resulting circles/spheres?

```
SELECT item, length_inches,
   PI()*length_inches AS circumference,
   PI()*POWER((length_inches/2), 2) AS area,
   4*PI()*POWER((length_inches/2), 3)/3 AS volume
   FROM measurements;
```

item	length_inches	circumference	area	volume
paperclip	1.375	4.31968989868597	1.4848934026733	1.36115228578386
pencil	7.5	23.5619449019234	44.1786466911065	220.893233455532
phone charger cord	42	131.946891450771	1385.4423602331	38792.3860865268

String Functions



Question:

Print off list of students results in the form of LAST NAME, FIRST NAME and PASS/FAIL

full_name	test_result
BELL, TINKER	PASS
DARLING, WENDY	PASS
HOOK, CAPTAIN	FAIL
PAN, PETER	PASS
SMEE, MR.	FAIL

Date and Time Functions



Question:

How many days has it been since we last received a shipment for each item?

	name	last_shipment	days_since_shipment
SELECT name, last_shipment	peacock feather hat	NULL	NULL
	leopard-print scarf	NULL	NULL
	manatee tank top	2018-03-19	3
		2018-03-19	3
	walrus-shaped pillow	2018-03-12	10
	gazelle lamp	2018-03-12	10
	bedding set, tiger icons	2018-03-12	10
	wooly mammoth curtains	2018-03-12	10
	giraffe-print bag	2018-02-26	24
	elephant tie	2018-02-26	24
	tiger t-shirt	2018-01-22	59
	zebra-striped pants	2018-01-08	73