

Week 5

Part 1: What are the sales for a particular item? (1%)

A. Select date (from sales), item (from stock_items) to get the items with a value of 1014.

```
SELECT s.date, i.item FROM sales s INNER JOIN stock_items i ON s.item = i.id WHERE i.id = 1014;
```

date	item
2021-06-12	Small chew toy
2021-06-15	Small chew toy
2021-06-16	Small chew toy
2021-06-17	Small chew toy
2021-06-19	Small chew toy

B. Find the employee numbers who sold item cat (feline) water dish. Include employee number, item number, category and item.

```
SELECT e.id AS "employee number", i.id AS "item number", i.category, i.item FROM employees e INNER JOIN sales s ON s.employee = e.id JOIN stock_items i ON i.id = s.item WHERE i.item = "water dish" AND i.category="feline";
```

employee number	item number	category	item
111	1003	Feline	Water dish
112	1003	Feline	Water dish
114	1003	Feline	Water dish

Part 2: What are the sales for a particular team member? (1%)

A. Select date (from sales), first and last name (from employees), item (from sales) to show the sales from the employee with a value of 111.

```
SELECT s.date, e.first_name, e.last_name, s.item FROM sales s INNER JOIN employees e ON  
s.employee = e.id WHERE e.id = 111;
```

date	first_name	last_name	item
2021-06-09	Henry	Marquis	1002
2021-06-09	Henry	Marquis	1003
2021-06-09	Henry	Marquis	1004
2021-06-11	Henry	Marquis	1012
2021-06-11	Henry	Marquis	1002
2021-06-12	Henry	Marquis	1005
2021-06-13	Henry	Marquis	1002
2021-06-15	Henry	Marquis	1014
2021-06-16	Henry	Marquis	1019
2021-06-16	Henry	Marquis	1018
2021-06-16	Henry	Marquis	1010
2021-06-18	Henry	Marquis	1004
2021-06-19	Henry	Marquis	1020
2021-06-20	Henry	Marquis	1008

- B. Find all sales by employees who have a SIN number that starts with either 258, 456 or 753. Include employee name (in one column), SIN, role, and item. Use right join.

```
SELECT CONCAT(e.first_name, " ", e.last_name) AS "Employee name", e.sin, e.role, s.item FROM employees e RIGHT JOIN sales s ON s.employee = e.id WHERE e.sin LIKE '258%' OR e.sin LIKE '456%' OR e.sin LIKE '753%';
```

Employee name	sin	role	item
Jas Kaur	456123789	Sales	1005
Farud Said	258741369	Sales	1011
Farud Said	258741369	Sales	1010
Farud Said	258741369	Sales	1009
Farud Said	258741369	Sales	1017
Farud Said	258741369	Sales	1018
Jas Kaur	456123789	Sales	1014
Jas Kaur	456123789	Sales	1003
Jas Kaur	456123789	Sales	1004
Jas Kaur	456123789	Sales	1005
Farud Said	258741369	Sales	1019
Jas Kaur	456123789	Sales	1020
Farud Said	258741369	Sales	1011
Farud Said	258741369	Sales	1004
Jas Kaur	456123789	Sales	1009
Farud Said	258741369	Sales	1014

Farud Said	258741369	Sales	1003
Farud Said	258741369	Sales	1005
Jas Kaur	456123789	Sales	1014
Jas Kaur	456123789	Sales	1011
Farud Said	258741369	Sales	1020
Farud Said	258741369	Sales	1006
Jas Kaur	456123789	Sales	1014
Jas Kaur	456123789	Sales	1011
Farud Said	258741369	Sales	1007
Farud Said	258741369	Sales	1117
Jas Kaur	456123789	Sales	1020

Part 3: What a week! and Go Team! (1%) sat 12 - fri 18

A. Provide the date, item (from sales), and employee first name for all sales in the range of Saturday June 12 to Friday June 18 (inclusive) of this year.

```
SELECT s.date, s.item, e.first_name FROM sales s INNER JOIN employees e ON s.employee = e.id
WHERE s.date >= "2021-06-12" AND s.date <= "2021-06-18";
```

date	item	first_name
2021-06-12	1005	Henry
2021-06-13	1002	Henry
2021-06-15	1014	Henry
2021-06-16	1019	Henry
2021-06-16	1018	Henry
2021-06-16	1010	Henry
2021-06-18	1004	Henry
2021-06-12	1014	Jas
2021-06-13	1003	Jas
2021-06-13	1004	Jas
2021-06-13	1005	Jas
2021-06-14	1020	Jas
2021-06-15	1009	Jas
2021-06-17	1014	Jas
2021-06-17	1011	Jas

2021-06-12	1010	Farud
2021-06-12	1009	Farud
2021-06-12	1017	Farud
2021-06-12	1018	Farud
2021-06-14	1019	Farud
2021-06-15	1011	Farud
2021-06-15	1004	Farud
2021-06-16	1014	Farud
2021-06-17	1003	Farud
2021-06-17	1005	Farud

- B. Provide the count of all sales for each sales person (first name and last name) grouped by sales person. The results should show most sales to least sales.

```
SELECT COUNT(s.id) AS "sales", e.first_name, e.last_name FROM sales s JOIN employees e ON s.employee = e.id GROUP BY e.first_name, e.last_name;
```

sales	first_name	last_name
15	Farud	Said
14	Henry	Marquis
12	Jas	Kaur

Part 4: Challenge (1%)

- A. Based on the results from 3B above, provide the date, item (from stock_items), price, category, and employee first name for all sales of the sales person with the most sales. Use aliases for your tables.

```
SELECT s.date, i.item, i.price, i.category, e.first_name FROM stock_items i RIGHT JOIN sales s ON s.item = i.id JOIN employees e ON e.id = s.employee WHERE s.employee = 114;
```

date	item	price	category	first_name
2021-06-17	Water dish	87	Feline	Farud
2021-06-15	Fish bowl starter kit	46	Piscine	Farud
2021-06-17	Luxury cat bed	89	Feline	Farud
2021-06-18	Just as good dog bed	74	Canine	Farud
2021-06-20	Deluxe Aquarium	12	Piscine	Farud
2021-06-12	Cat stand	55	Feline	Farud
2021-06-12	Premium Terrarium	524	Murine	Farud
2021-06-10	Water dish	10	Canine	Farud
2021-06-15	Water dish	10	Canine	Farud
2021-06-16	Small chew toy	6	Canine	Farud
2021-06-12	Air pump	18	Piscine	Farud
2021-06-12	Hamster tubes	65	Murine	Farud
2021-06-14	Large cage	30	Murine	Farud
2021-06-18	Leash	18	Canine	Farud
2021-06-20	NULL	NULL	NULL	Farud

B. Create a list of unique items (sales), item id (stock items), items (stock_items), prices and categories that must include all stock_item items in the result set, whether there were any sales or not. This list should be ordered by the stock_items id.

```
SELECT DISTINCT s.item, i.id, i.item, i.price, i.category FROM stock_items i LEFT JOIN sales s ON i.id = s.item ORDER BY i.id;
```

item	id	item	price	category
NULL	1001	Luxury dog bed	95	Canine
1002	1002	Super size chew toy	15	Canine
1003	1003	Water dish	87	Feline
1004	1004	Fish bowl starter kit	46	Piscine
1005	1005	Luxury cat bed	89	Feline
1006	1006	Just as good dog bed	74	Canine
1007	1007	Deluxe Aquarium	12	Piscine
1008	1008	Terrarium	231	Murine
1009	1009	Cat stand	55	Feline
1010	1010	Premium Terrarium	524	Murine
1011	1011	Water dish	10	Canine
1012	1012	Giant clam aerator	15	Piscine
NULL	1013	Small cage	20	Murine
1014	1014	Small chew toy	6	Canine
NULL	1015	Collar	12	Feline
NULL	1016	Collar	15	Canine
1017	1017	Air pump	18	Piscine
1018	1018	Hamster tubes	65	Murine
1019	1019	Large cage	30	Murine
1020	1020	Leash	18	Canine