

Exercise 1

BS19-02. Team 5

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Order countries by id asc, then show the 12th to 17th rows.

```
SELECT *  
FROM country  
ORDER BY country_id ASC  
LIMIT 6 OFFSET 11;  
 $\sigma_{country\_id \geq 12 \text{ and } country\_id \leq 17} (country)$ 
```

List all addresses in a city whose name starts with 'A'.

```
SELECT address  
FROM address  
      JOIN city ON address.city_id = city.city_id  
WHERE city.city ~ 'A.+';
```

$\pi_{address} ([address] \bowtie_{address.city_id = city.city_id} [\sigma_{city.city \sim 'A.+'} (city)])$

List all customers' first name, last name and the city they live in.

```
SELECT first_name, last_name, city  
FROM (customer FULL JOIN address ON customer.address_id =  
address.address_id) AS temp  
      FULL JOIN city ON city.city_id = temp.city_id;
```

Find all customers with at least one payment whose amount is greater than 11 dollars.

```
SELECT *  
FROM payment, customer  
WHERE amount > 11 and payment.customer_id = customer.customer_id;  
 $\sigma_{customer.amount > 11 \text{ and } payment.customer\_id = customer.customer\_id} (payment, customer)$ 
```

Find all duplicated first names in the customer table.

```
SELECT first_name  
FROM customer  
GROUP BY first_name  
HAVING COUNT(first_name) > 1  
 $\sigma_{COUNT(first\_name) > 1}$ 
```

