

# Junior programmer (SQL)

1. Why indexes should be used?
2. Where foreign key should be used and why?
3. What is SQL Injection and how to prevent it?
- 4.

Create query that counts number of cars for each car manufacturer in following table:

Table: cars

id (int)

name (varchar 255)

manufacturer\_id (int)

- 5.

Create simple product list script:

Let there be two tables - for product types and for products - they are bound with one-to-many relation

Types will have names

Products will have names, prices and types

Let user add new products via form, that will have inputs for name, price and type (type will be selected from drop-down list)

Further display list of every product that will contain product name, type and price

Furthermore, display table that will list sum of product prices for each product type

6. Take product list from above task, and make it paginated
7. When should we prefer PDO prepared statements vs PDO queries and why?
8. How to access multiple databases on single PDO connection?

When finished, please send zip archive containing tasks' source PHP to the following email:

[it@cbok.com.pl](mailto:it@cbok.com.pl)

Optionally you can send git repository URL to the address mentioned above.