Hack postgres Source Code: Vol I

Chapter 1: C & Rust

1.9 Structs in postgres

C:

```
#include<stdio.h>
/*
* Structs are custom data types created out of primitive types in
* most of the cases.
* Struct members are accessed with `.` operator
* Structs are generally intialized out of the main function.
* Structs follow camelcase convention for their names.
struct Employee {
    int emp id;
    char emp_name[64];
};
int
main() {
    struct Employee emp_1 = {101, "John"};
    printf("%d and %s\n", emp_1.emp_id, emp_1.emp_name);
    return 0;
}
```

Rust:

```
struct Employee {
    emp_id: i32,
    emp_name: String,
}

fn main() {
    //Creating immutable struct
    let emp_1 = Employee { emp_id: 101, emp_name: String::from("John")};
```

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```
println!("{} and {}", emp_1.emp_id, emp_1.emp_name);

//Creating mutable struct
let mut emp_2 = Employee {emp_id:0, emp_name:String::from("Dummy")};

emp_2.emp_id = 102;
emp_2.emp_name = String::from("Jane");

println!("{} and {}", emp_2.emp_id, emp_2.emp_name);
}
```

Observations;

- 1. C and Rust follow same path while dealing with the function at core level.
- 2. There is only slight difference between C & Rust's syntax.

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