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## Firebird Interview Questions

### Q1. What is Firebird?

**Firebird** is a relational database that offers many **ANSI SQL** standards features. It has support for **Linux**, **Windows**, and a variety of **UNIX platforms**. It offers excellent concurrency, high-performance, and powerful language support for stored procedures. First **released in 1981**, Firebird has now been used in many production systems. Firebird can be used without any fee for download, registration, licensing, or deployment.

### Q2. Enlist few advantages of Firebird?

Some of the advantages of using a Firebird are,

- It can be used free of cost.
- Firebird is a powerful and technologically developed product.
- It is easily configurable than the MS SQL Server.
- It has support for all major platforms like Windows, Linux, and Unix with easy installation steps.
- The backup process is easy with Firebird.
- It uses the internal SQL language for programming data checking, recounts, and filters directly into the SQL server.
- Each Firebird database is located in one independent file so that it can be located anywhere on the disk.
- The product functionality is not artificially limited with the Firebird.

### Q3. Explain generators in Firebird?

**Generators** are a thread-safe integer count which lives inside a **Firebird database**. It can be created easily by just giving it a name. After creating a generator, you can increase, decrease, or get the value of it like a "**var i: integer**" in Delphi.

```
//Syntax to create a Generator  
CREATE GENERATOR gentest;Here, the gentest is the created generator.
```

### Q4. List the platforms supported by Firebird?

Some list of **firebird supported platforms** is:- Linux, Windows, and a variety of UNIX platforms.

## Q5. What is Firebird Guardian?

**Firebird Guardian** is a small application that is used to check whether the Firebird server is running and restarting or if it crashes. Firebird Guardian can only be used if you run Firebird as an application. If you configure Firebird as a service, then there is no need for the Guardian. On Linux, the Super Server uses Guardian for the process called the **ibguard** or **fbguard** depending upon the Firebird version.

## Q6. Firebird is written in which programming language?

The Firebird project is **written in C++**.

## Q7. What is the default concurrency system supported by Firebird?

**The Firebird** architecture allows for **high transaction concurrency**. So by default, all the Firebird transactions are ACID compliant.

## Q8. How would you replicate the Firebird database?

By default, **Firebird doesn't offer replication out-of-the-box**, so you should use third-party tools to replicate a Firebird database.

Some of the third party tools for Firebird database replication are IBReplicator, FiBRE, FBReplicator, IBO Replication Module, ReplicadorBR, and Replicador Firebird.

## Q9. How firebird handle row-level locks?

For an application that needs **row-level locks**, **Firebird offers** it in its **SELECT statement**. The WITH LOCK feature provides a limited explicit pessimistic locking capability.

```
//syntax for with lock feature
SELECT ... FROM single_table
  [WHERE ...]
  [FOR UPDATE [OF ...]] [WITH LOCK]
```

The WITH LOCK feature secures a lock on the selected rows so any other transactions can be prevented from writing or reading to any of these locked rows until the transaction ends.

## Q10. Is Firebird support UUIDs or GUIDs?

**UUID is a UNIX standard, and GUID is a Microsoft standard.** Firebird has basic **support for UUID** fields. The built-in function in the Firebird called the **GEN\_UUID** is used to **create a 128bit UUID**.

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