

```

import java.io.File;
import java.util.Hashtable;

import org.codehaus.jackson.JsonProcessingException;

public interface IDatabase {

    public Object get(String key);

    public IDatabase put(String key, Integer data);

    public IDatabase put(String key, Double data);

    public IDatabase put(String key, String data);

    public IDatabase put(String key, ArrayFormat data);

    public IDatabase put(String key, ObjectFormat data);

    public int getInt(String key) throws
    DataTypeMismatchException;

    public double getDouble(String key) throws
    DataTypeMismatchException;

    public ArrayFormat getArray(String key) throws
    DataTypeMismatchException;

    public String getString(String key) throws
    DataTypeMismatchException;

    public ObjectFormat getObject(String key) throws
    DataTypeMismatchException;

    public Object delete(String key);

    public boolean modify(String key, Integer data);

    public boolean modify(String key, Double data);

    public boolean modify(String key, String data);

    public boolean modify(String key, ArrayFormat data);

    public boolean modify(String key, ObjectFormat data);

    public void recover() throws JsonProcessingException,
    Exception;

    public void undo();
}

```

```
    public Hashtable<String, Object> data();

    public ITransaction transaction();

    public Object snapShot();

    public Object snapShot(File commands, File snapshot) throws
Exception;

    public void recover(File commands, File snapshot) throws
Exception;

    public ICursor getCursor(String key);
}
```