WHAT ARE CONTACTS IN ANDROID AND WHAT ARE THE DIFFERENT TYPES?

Contacts Provider:

Is a component that manages the device's central repository of data about people, also is the source of data that we see in the device's contacts application, and we can also access its data in our application and transfer data between the device and online services.

There are three tables are commonly referred to by the names of their contract classes. The classes define constants for content URIs, column names, and column values used by the tables:

* ContactsContract.Contacts table: Rows representing different people, based on aggregations of raw contact rows.
* ContactsContract.RawContacts table: Rows containing a summary of a person's data, specific to a user account and type.
* ContactsContract.Data table: Rows containing the details for raw contact, such as email addresses or phone numbers.

The Contacts Provider combines the raw contact rows across all account types and account names to form a contact. Also the Contacts Provider creates a new contact in response to the addition of a new raw contact that doesn't match any existing contacts.

Raw Contact:

Represents a person's data coming from a single account type and account name. The Contacts Provider allows multiple raw contacts for the same person because it allows more than one online service as the source of data for a person

Multiple raw contacts also allow a user to combine a person's data from more than one account from the same account type

Sandbox App

A non-sandboxed app has the full rights of the user who is running that app, and can access any resources that the user can access. If that app or the frameworks it is linked against contain security holes, an attacker can potentially exploit those holes to take control of that app, and in doing so, the attacker gains the ability to do anything that the user can do.

So a Sandbox App is an app with limited access to the resources.