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1 Content Providers			
2 Calendar			
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<ul> <li>Mostly used to share data between applications<sub>[2]</sub>.</li> </ul>	
<ul> <li>Many predefined Content Providers available, for example to access phone contacts.</li> </ul>	
Provide mechanisms to define data security.	

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```
Content Providers
Example: Usage of a Content Provider
```



```
String[] proj = new String[] {People._ID,
    People.NAME, People.NUMBER};
People.NAME, People.NUMBER};
try {
   Cursor c = managedQuery(People.CONTENT_URI,
        proj, null, null, null);
   if (c == null) return;
   int name = c.getColumnIndexOrThrow(People.
        NAME);
   if (!c.moveToFirst()) return;
   String nameString = c.getString(name);
   ...
```



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## Calendar

- To access the built-in calendar the Android manifest has to be extended[?]:
- <uses-permission android:name="android.
   permission.READ\_CALENDAR">
  </uses-permission>
- - $\blacksquare$  Data can be accessed through a Content Provider and a Cursor.
  - The Content Provider for the calender has the following URI:
- 1 content://calendar/calendars



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Data Model







http://developer.android.com/guide/t	copics/	provi	ders
calendar-provider.html	401	(0)	(2)

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## Calendar Provider

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- CalendarContract. Calendars:
   Calender specific informations.
- CalendarContract.Events:
   Event specific informations. Connected by CALENDER\_ID.
- CalendarContract.Instances:
   Start and end time for each occurrence. Connected by EVENT.ID.
- CalendarContract.Attendees:
   Event attendee information. Connected by EVENT\_ID.
- CalendarContract.Reminders:
   Notification data. Connected by EVENT\_ID.



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