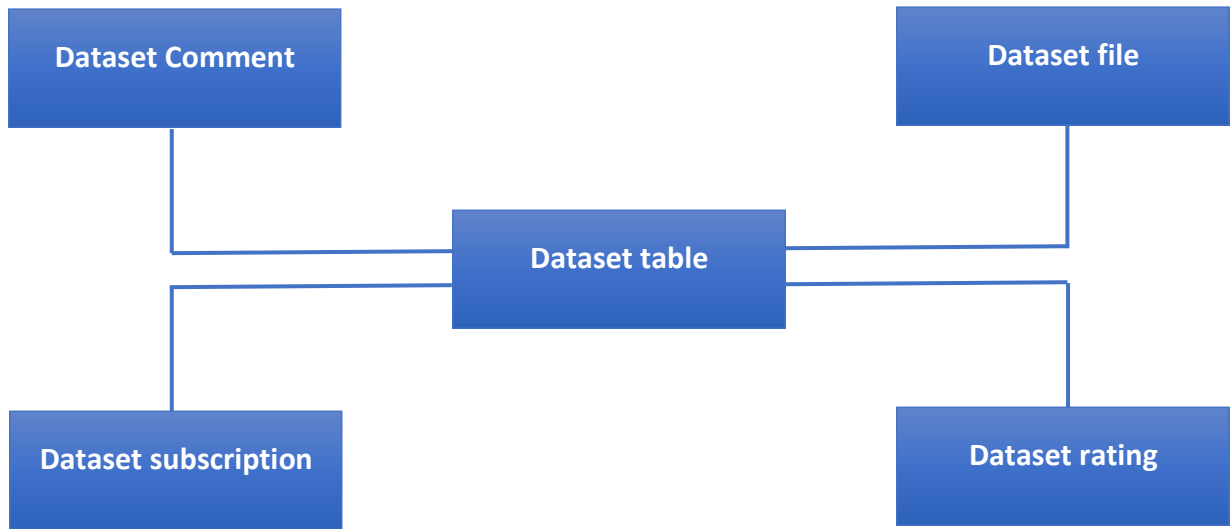


# Open Government Database

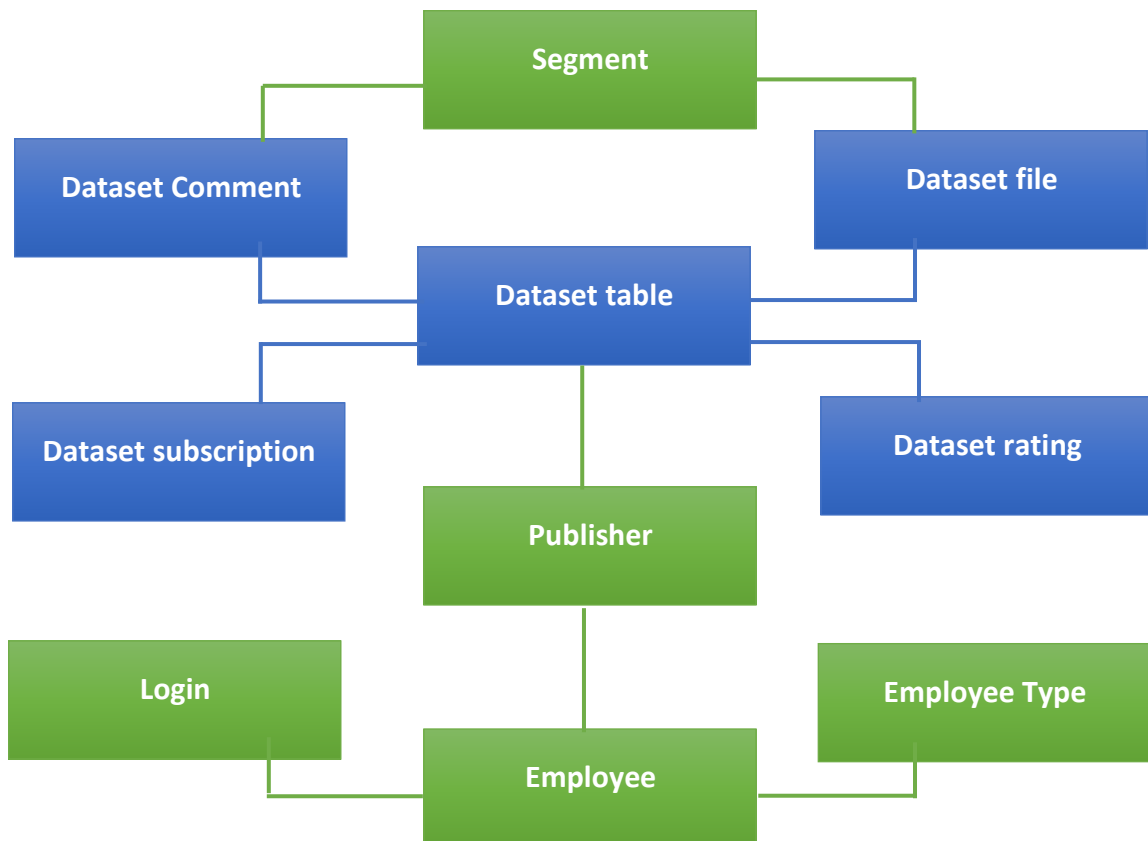
In this document, you will be able to understand the new database design and description for the new tables for the open government data combined with the current database design .

## 1.Data base Diagrams

### 1.1 Current data base design



### 1.2 New database design



## 2. Description for each entity:

The Current database has five entities include: Dataset table, Dataset file, Dataset Comment, Dataset subscription, Dataset rating. There is need some changes to fit our requirements.

The new database has five new entities include: Employee, Employee Type, Login, Segment and Publisher.

### 2.1 The changes

Some attributes in the current database need to delete, separate and change the way they take the value, and some attribute need to add to the current table in order to connect with new table.

#### 2.1.1 Dataset table

Column	Data type	Changes
ID	INTEGER	No changes
ALT_URL	VARCHAR	No changes
DESC_AR	VARCHAR	No changes
DESC_EN	VARCHAR	No changes
EXTERNAL_URL	VARCHAR	No changes
INACCURATE	SMALLINT	No changes
MAIN_CLASS_ID	INTEGER	Need more description
NAME_AR	VARCHAR	No changes
NAME_EN	VARCHAR	No changes
OPENNESS	DOUBLE	No changes
PUBLISH_DATE	TIMESTAMP	Take the value from the system
PUBLISHER	VARCHAR	Need more description
SEARCH_WORD_AR	VARCHAR	No changes
SEARCH_WORD_EN	VARCHAR	No changes
SEGMENT_ID	INTEGER	No changes
<b>SUB_CLASS_ID</b>	<b>INTEGER</b>	<b>Delete this attribute</b>
VIEW_COUNT	INTEGER	No changes
RATING	DOUBLE	Need more description
SHARE_COUNT	INTEGER	Active these field on the open data portal
Dataset_update_id (New field)	INTEGER	Add these field to connect the table with the dataset update table . It's contain the ids of the dataset update list. *the description of the dataset update table is coming later
Publisher_ID (New field)	INTEGER	Add these field to connect the table with the Publisher table . It's contain the ids of the Publisher list .

		<b>*the description of the Publisher table is coming later</b>
<b>Published (New field)</b>	<b>Bit</b>	<b>Add these field to the table, and it's contain zero and one . The default value is zero The value is equal zero if the dataset is not published . The value is equal one if the dataset is published</b>
<b>Upload_Estimated_date (New field)</b>	<b>TIMESTAMP</b>	<b>Add these field to the table to store the estimated data for the data set</b>

### 2.1.2 Dataset file

<b>Column</b>	<b>Data type</b>	<b>Changes</b>
ID	INTEGER	No changes
<b>FILE_ALIAS</b>	<b>VARCHAR</b>	<b>Need more description</b>
DATA_SET_ID	INTEGER	No changes
<b>DATA_SET_NAME</b>	<b>VARCHAR</b>	No changes
DOWNLOAD_COUNT	INTEGER	No changes
DS_MONTH	SMALLINT	<b>Need more description</b>
FILE_PATH	VARCHAR	No changes
DS_QUARTER	SMALLINT	No changes
<b>SEGMENT_ID</b>	<b>INTEGER</b>	<b>Separate in new table</b>
<b>SEGMENT_NAME</b>	<b>VARCHAR</b>	<b>Separate with SEGMENT_ID in new table</b>
FILE_TYPE	VARCHAR	No changes
DS_YEAR	INTEGER	No changes
VIEW_COUNT	INTEGER	No changes
PUBLISH_DATE	TIMESTAMP	No changes
<b>ISSUE_DATE</b>	<b>TIMESTAMP</b>	<b>Need more description</b>

### 2.1.3 Dataset subscription

<b>Column</b>	<b>Data type</b>	<b>Changes</b>
ID	INTEGER	No changes
ACTIVE	SMALLINT	No changes
DATA_SET_ID	INTEGER	No changes
EMAIL_ADDRESS	VARCHAR	No changes

### **2.1.4 Dataset Comment**

<b>Column</b>	<b>Data type</b>	<b>Changes</b>
ID	INTEGER	No changes
CONTENT	VARCHAR	No changes
CREATION_DATE	TIMESTAMP	No changes
DATA_SET_ID	INTEGER	No changes
FULL_NAME	VARCHAR	No changes
APPROVED	SMALLINT	No changes
APPROVAL_DATE	TIMESTAMP	No changes
APPROVED_BY	VARCHAR	No changes
MODIFIED_DATE	TIMESTAMP	No changes
USER_ID	VARCHAR	No changes

### **2.1.5 Dataset rating**

<b>Column</b>	<b>Data type</b>	<b>Changes</b>
ID	INTEGER	No changes
DATA_SET_ID	INTEGER	No changes
USER_ID	VARCHAR	No changes
RATING	DOUBLE	No changes

## **2.2 Description for new table**

There is five table each one contain a group of field describe as following :

### **2.2.1 Employee table**

th table contain all information about the Employees used the portal in order to add new dataset .

<b>Column</b>	<b>Data type</b>	<b>Description</b>
Emp_id	INTEGER	It contains a unique number for each employee ( Primary key )
Publisher_ID	INTEGER	It contains a numbers represent the publisher (Foreign key from Publisher table)
Name	VARCHAR	It contains the full name of the employee
Position	VARCHAR	It contain the position of the employee in the government institutions
Tel 1	INTEGER	Employee phone number #1
Tel 2	INTEGER	Employee phone number #2
Email	VARCHAR	Employee email

Emp_type_id	INTEGER	It contain a numbers represent the types of the employee such as : the data coordinators and the officers. (Foreign key from Employee type table)
Notes	VARCHAR	It contains any important notes about employee.
Approval document	VARBINARY	It contains the approval document for the employee

### **2.2.2 Employee type table**

The employee type table contain the roles of the employee .

Column	Data type	Description
Emp_type_id	INTEGER	It contains a unique number for each employee role ( Primary key )
Name	VARCHAR	It contains the roles of the employee include: (the data coordinators, the officers, the admins).

### **2.2.3 Login**

The login table contain all login transaction of different employee

Column	Data type	Description
Login_id	INTEGER	It contains a unique number for each login transaction ( Primary key )
Emp_id	INTEGER	It contains a numbers represent the Employees ID (Foreign key from Employee table)
Date	TIMESTAMP	It contains the date for each session.
Login_Time	TIME	It contains the login time for each session.
Logout_Time	TIME	It contains the logout time for each session.

#### **2.2.4 Publisher table**

**The Publisher table contain the government institutions names.**

<b>Column</b>	<b>Data type</b>	<b>Description</b>
Publisher_id	INTEGER	It contains a unique number for each government institution (Primary key)
Punlisher_Name	VARCHAR	It contains the name of government institutions

#### **2.2.5 Segment table**

**These table is derived from dataset file in order to make the database more normalized**

<b>Column</b>	<b>Data type</b>	<b>Description</b>
SEGMENT_ID	INTEGER	Separated from dataset file table.
SEGMENT_NAME	VARCHAR	Separated from dataset file table.