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# Setting Up the airportdb Database

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This document describes [airportdb](#) sample database installation, structure, and usage.

The [airportdb](#) sample database is adapted from the [Flughafen DB](#) developed by Stefan Proell, Eva Zangerle, Wolfgang Gassler.

For legal information, see the [Legal Notices](#).

For help with using MySQL, please visit the [MySQL Forums](#), where you can discuss your issues with other MySQL users.

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## 1 Preface and Legal Notices

This document describes [airportdb](#) sample database installation, structure, and usage.

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## 2 Introduction

The `airportdb` database is a large data set intended for use with MySQL HeatWave on Oracle Cloud Infrastructure (OCI) and AWS. The database is approximately 2GB in size and consists of 14 tables containing a total of 55,983,205 records.

**Table 1** airportdb Tables

Table Name	Rows
<code>booking</code>	50831531
<code>flight</code>	416429
<code>flight_log</code>	0
<code>airport</code>	9939
<code>airport_reachable</code>	0
<code>airport_geo</code>	9854
<code>airline</code>	113
<code>flightschedule</code>	9851
<code>airplane</code>	5583
<code>airplane_type</code>	342
<code>employee</code>	1000
<code>passenger</code>	36346
<code>passengerdetails</code>	37785
<code>weatherdata</code>	4626432

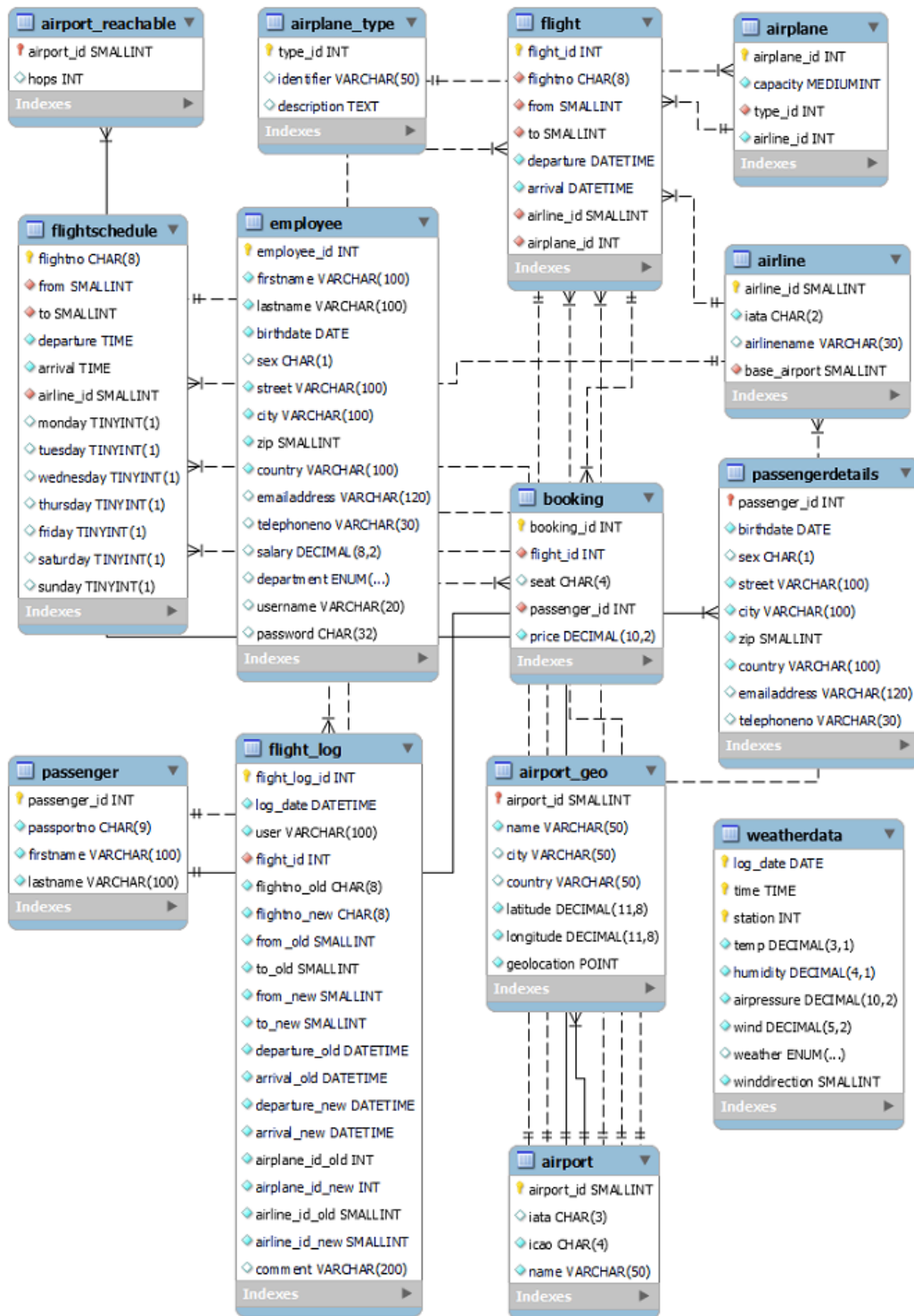
The `airportdb` data files were produced using the [MySQL Shell Schema Dump Utility](#).

Data files produced by the MySQL Shell Schema Dump Utility include DDL files for creating the schema structure, compressed `.tsv` files that contain the data, and `.json` metadata files.

## 3 airportdb Structure

The following diagram provides an overview of the `airportdb` database structure.

Figure 1 airportdb Schema



## 4 Installation

The following instructions describe how to install the `airportdb` database on a MySQL DB System.

On AWS, use the **Import sample data** feature in MySQL HeatWave Console to import `airportdb` into a DB System. See [Importing Sample Database](#) for details.

On Oracle Cloud Infrastructure (OCI), two methods are provided for installing `airportdb`:

- [Installing airportdb on OCI from Object Storage](#)
- [Installing airportdb on OCI from a Compute Instance](#)

The Object Storage method requires uploading the `airportdb` data files to an Object Storage bucket from where they are loaded into the MySQL DB System. The Compute instance method does not involve an Object Storage bucket; data files are downloaded to the Compute instance, from where they are loaded into the MySQL DB System.

### Warning

The `airportdb` sample database can be installed on an on-premise MySQL Server instance, but due to the volume of data, it is only advisable to do so if your system has sufficient disk space and is capable of supporting large load operations consisting of millions of rows of data.

## Installing airportdb on OCI from Object Storage

The installation procedure involves downloading the `airportdb` sample database, uploading the data files to an Object Storage bucket, and importing the data from the Object Storage bucket into the MySQL DB System using the [MySQL Shell Dump Loading utility](#).

Before you begin, ensure that you have the following:

- The MySQL DB System's Endpoint (its private IP address), and a MySQL DB System administration user name and password. For information about retrieving the MySQL DB System Endpoint, see [MySQL DB System Details](#).
- The public IP address of the Compute instance used to connect to the MySQL DB System. For information about the Compute Service, see [Overview of the Compute Service](#).
- MySQL Shell 8.0.22 or higher installed on the Compute instance. For installation instructions, see [Connecting to the MySQL DB System with SSH and MySQL Shell](#).
- A valid OCI CLI configuration file. See [SDK and CLI Configuration File](#). If you have not installed and configured the OCI CLI, you must either install it or create a configuration file manually.
- Access to Object Storage and an existing bucket. For information about Object Storage, see [Object Storage Overview](#).
- The Object Storage bucket name and namespace. For information about namespaces, see [Understanding Object Storage Namespaces](#).

To install the `airportdb` sample database:

1. Download the `airportdb` database to a temporary location such as `/tmp/` or `C:\temp\` and unpack it. The `airportdb` sample database is provided for download as a compressed `tar` or Zip archive. The download is approximately 640 MBs in size.

```
wget https://downloads.mysql.com/docs/airport-db.tar.gz
tar xvzf airport-db.tar.gz
```

or

```
wget https://downloads.mysql.com/docs/airport-db.zip
unzip airport-db.zip
```

Unpacking the compressed `tar` or Zip archive results in a single directory named `airport-db`, which contains the data files.

2. Log in to your Oracle Cloud Infrastructure (OCI) account and upload the `airportdb` data files from the `airport-db` directory to an Object Storage bucket. For information about loading data into an Object Storage bucket, see [Putting Data into Object Storage](#).

- SSH to the Compute instance using the `opc` user and the public IP address of the compute instance. For additional information about connecting to a Compute instance, see [Connecting to an Instance](#).

```
ssh opc@computeInstancePublicIP
```

- Start MySQL Shell and connect to the MySQL DB System Endpoint. For additional information about connecting to a DB System, see [Connecting to the MySQL DB System with SSH and MySQL Shell](#).

```
mysqlsh Username@IPAddressOfMySQLDBSystemEndpoint
```

- Load the `airportdb` data files into the MySQL DB System using the [MySQL Shell Dump Loading utility](#). The bucket name and namespace are required.

```
MySQL>JS> util.loadDump("airportdb", {threads: 16, deferTableIndexes: "all",
osBucketName: "bucket-name", osNamespace: "name_space",
ignoreVersion: true})
```

### Note

The `deferTableIndexes: "all"` option defers creating secondary indexes until after the table data is loaded, which significantly reduces load times. If you intend to use `airportdb` with MySQL HeatWave, which does not use secondary indexes, you can avoid creating secondary indexes by specifying the `loadIndexes: "false"` option instead of `deferTableIndexes: "all"`. For more information about MySQL Dump Load options, see [MySQL Shell Dump Loading utility](#).

After the data is imported into the MySQL DB System, you can load the tables into MySQL HeatWave. For instructions, see [Section 5, "Loading airportdb into MySQL HeatWave"](#).

## Installing airportdb on OCI from a Compute Instance

The installation procedure involves downloading the `airportdb` database to a Compute instance and importing the data from the Compute instance into the MySQL DB System using the [MySQL Shell Dump Loading utility](#).

Before you begin, ensure that you have the following:

- The MySQL DB System's Endpoint (its private IP address), and a MySQL DB System administration user name and password. For information about retrieving the MySQL DB System Endpoint, see [MySQL DB System Details](#).
- The public IP address of the Compute instance used to connect to the MySQL DB System. For information about the Compute Service, see [Overview of the Compute Service](#).
- MySQL Shell 8.0.22 or higher installed on the Compute instance. For installation instructions, see [Connecting to the MySQL DB System with SSH and MySQL Shell](#).
- A valid OCI CLI configuration file. See [SDK and CLI Configuration File](#). If you have not installed and configured the OCI CLI, you must either install it or create a configuration file manually.

To install the `airportdb` database:

- SSH to the Compute instance using the `opc` user and the public IP address of the compute instance. For additional information about connecting to a Compute instance, see [Connecting to an Instance](#).

```
ssh opc@computeInstancePublicIP
```

- Download the `airportdb` sample database and unpack it. The `airportdb` sample database is provided for download as a compressed `tar` or Zip archive. The download is approximately 640 MBs in size.

```
wget https://downloads.mysql.com/docs/airport-db.tar.gz
tar xvzf airport-db.tar.gz
```

or

```
wget https://downloads.mysql.com/docs/airport-db.zip
unzip airport-db.zip
```

Unpacking the compressed `tar` or Zip archive results in a single directory named `airport-db`, which contains the data files.

3. Start MySQL Shell and connect to the MySQL DB System Endpoint. For additional information about connecting to a DB System, see [Connecting to the MySQL DB System with SSH and MySQL Shell](#).

```
mysqlsh Username@IPAddressOfMySQLDBSystemEndpoint
```

4. Load the `airportdb` database into the MySQL DB System using the [MySQL Shell Dump Loading utility](#).

```
MySQL>JS> util.loadDump("airport-db", {threads: 16, deferTableIndexes: "all",
ignoreVersion: true})
```

### Note

The `deferTableIndexes: "all"` option defers creating secondary indexes until after the table data is loaded, which significantly reduces load times. If you intend to use `airportdb` with MySQL HeatWave, which does not use secondary indexes, you can avoid creating secondary indexes by specifying the `loadIndexes: "false"` option instead of `deferTableIndexes: "all"`. For more information about MySQL Dump Load options, see [MySQL Shell Dump Loading utility](#).

After the data is imported into the MySQL DB System, you can load the tables into MySQL HeatWave. For instructions, see [Section 5, "Loading airportdb into MySQL HeatWave"](#).

## 5 Loading airportdb into MySQL HeatWave

See [Manage Data in HeatWave with Workspaces](#) for how to load the `airportdb` database from a MySQL DB System into MySQL HeatWave on AWS.

The following procedure describes how to load the `airportdb` database from a MySQL DB System into MySQL HeatWave on OCI.

Before you begin:

- The `airportdb` database must be loaded in the MySQL DB System. If you have not done so, see [Section 4, "Installation"](#).
- A MySQL HeatWave Cluster must be enabled for use with your MySQL DB System. For information about adding a MySQL HeatWave Cluster to a DB System, see [Adding a HeatWave Cluster to a DB System](#).

To load the `airportdb` into MySQL HeatWave:

1. SSH to the Compute instance from your local machine using the `opc` user and the public IP address of the compute instance. For additional information about connecting to a Compute instance, see [Connecting to an Instance](#).

```
ssh opc@computeInstancePublicIP
```

2. Start MySQL Shell and connect to the MySQL DB System's Endpoint (its private IP address). For additional information about connecting to a DB System, see [Connecting to the MySQL DB System with SSH and MySQL Shell](#).

```
mysqlsh Username@IPAddressOfMySQLDBSystemEndpoint
```

### Note

Alternatively, you can connect to the DB System using a MySQL Client:

```
mysql --host IPAddressOfMySQLDBSystemEndpoint -u Username -p
```

3. Change the MySQL Shell execution mode to SQL and run the following Auto Parallel Load command to load the `airportdb` tables into MySQL HeatWave.

```
MySQL>JS> \sql
MySQL>SQL> CALL sys.heatwave_load(JSON_ARRAY('airportdb'), NULL);
```

Tables can be unloaded from MySQL HeatWave using the following statements:

```
USE airportdb;

ALTER TABLE booking SECONDARY_UNLOAD;
ALTER TABLE flight SECONDARY_UNLOAD;
ALTER TABLE flight_log SECONDARY_UNLOAD;
ALTER TABLE airport SECONDARY_UNLOAD;
ALTER TABLE airport_reachable SECONDARY_UNLOAD;
ALTER TABLE airport_geo SECONDARY_UNLOAD;
ALTER TABLE airline SECONDARY_UNLOAD;
ALTER TABLE flightschedule SECONDARY_UNLOAD;
ALTER TABLE airplane SECONDARY_UNLOAD;
ALTER TABLE airplane_type SECONDARY_UNLOAD;
ALTER TABLE employee SECONDARY_UNLOAD;
ALTER TABLE passenger SECONDARY_UNLOAD;
ALTER TABLE passengerdetails SECONDARY_UNLOAD;
ALTER TABLE weatherdata SECONDARY_UNLOAD;
```

## 6 License for the airportdb Database

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