

INTERNET OF THINGS

Department Of Computer Science

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Issue 1

The Internet of Things (IoT): An Overview

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Database Schema Of Project CU Journal Hub

1) Teachers Table (Prerequisite)

```
mysql> describe Teachers;
```

Field	Type	Null	Key	Default	Extra
teacher_id	int	NO	PRI	NULL	auto_increment
employee_id	varchar(255)	YES		NULL	
phone	varchar(255)	YES		NULL	
address	varchar(255)	YES		NULL	
department	varchar(255)	YES		NULL	
email	varchar(255)	NO	UNI	NULL	
faculty	varchar(255)	YES		NULL	

7 rows in set (0.01 sec)

2) Users Table

```
mysql> describe Users;
```

Field	Type	Null	Key	Default	Extra
user_id	int	NO	PRI	NULL	auto_increment
name	varchar(255)	NO		NULL	
email	varchar(255)	NO	UNI	NULL	
password	varchar(255)	NO		NULL	
role	enum('admin','editor','author','public')	NO		NULL	
teacher_id	int	YES	MUL	NULL	

6 rows in set (0.00 sec)

3) Journals Table

```
mysql> describe Journals;
```

Field	Type	Null	Key	Default	Extra
journal_id	int	NO	PRI	NULL	auto_increment
name	varchar(255)	NO		NULL	
issue_number	int	YES		NULL	
volume_number	int	YES		NULL	
publishing_date	date	YES		NULL	
cover_image_path	varchar(255)	YES		NULL	

6 rows in set (0.00 sec)

4) Articles Table

```
mysql> describe Articles
-> ;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| article_id     | int           | NO   | PRI | NULL    | auto_increment |
| journal_id     | int           | NO   | MUL | NULL    |                 |
| issue_number   | int           | YES  |     | NULL    |                 |
| volume_number  | int           | YES  |     | NULL    |                 |
| name           | varchar(255)  | NO   |     | NULL    |                 |
| submission_date | date          | YES  |     | NULL    |                 |
| status         | enum('accepted','rejected') | YES  |     | NULL    |                 |
| file_path      | varchar(255)  | YES  |     | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

5) Authors Table

```
mysql> describe Authors;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| author_id  | int  | NO   | PRI | NULL    | auto_increment |
| user_id    | int  | YES  | UNI | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

6) ArticleAuthors Table

```
mysql> describe ArticleAuthors;
+-----+-----+-----+-----+-----+-----+
| Field          | Type | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| article_id     | int  | NO   | PRI | NULL    |                 |
| author_id      | int  | NO   | PRI | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

7) UserActivity Table

```
mysql> describe useractivity;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| useractivity_id | int           | NO   | PRI | NULL    | auto_increment |
| user_id        | int           | YES  | MUL | NULL    |                 |
| activity_type   | enum('visit','download','read') | YES  |     | NULL    |                 |
| journal_id     | int           | YES  | MUL | NULL    |                 |
| article_id     | int           | YES  | MUL | NULL    |                 |
| activity_date   | datetime      | YES  |     | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

8) Subscriptions Table

```
mysql> describe Subscriptions;
+-----+-----+-----+-----+-----+-----+
| Field          | Type | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| subscription_id | int  | NO   | PRI | NULL    | auto_increment |
| user_id        | int  | YES  | MUL | NULL    |                |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```