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BATCH: DATA ENGINEERING

TOPIC: VIEWS IN SQL

VIEWS IN SQL: a view is a virtual table based on the result of a SELECT query. It does not store the data itself but provides a way to represent the result of a query as if it were a table.

```
mysql> -- Creating the ExampleTableView
mysql> CREATE VIEW ExampleTableView AS
  -> SELECT ID, Name, Age
  -> FROM ExampleTable
  -> WHERE Age IS NOT NULL;
Query OK, 0 rows affected (0.13 sec)

mysql>
mysql> -- Querying the original ExampleTable
mysql> SELECT * FROM ExampleTable;
+----+-----+-----+-----+
| ID | Name  | Age  | City  |
+----+-----+-----+-----+
| 1  | John  | 25   | New York |
| 2  | Alice | 30   | Los Angeles |
| 3  | Bob   | 22   | NULL |
| 4  | Alice | 30   | Chicago |
| 5  | Mary  | NULL | Boston |
| 6  | John  | 25   | Miami |
| 7  | NULL  | 28   | San Francisco |
| 8  | Bob   | 22   | NULL |
| 9  | Alice | 30   | Los Angeles |
| 10 | Mary  | NULL | NULL |
+----+-----+-----+-----+
10 rows in set (0.01 sec)
```

```
mysql> -- Querying the ExampleTableView
mysql> SELECT * FROM ExampleTableView;
+----+-----+-----+
| ID | Name  | Age  |
+----+-----+-----+
| 1  | John  | 25   |
| 2  | Alice | 30   |
| 3  | Bob   | 22   |
| 4  | Alice | 30   |
| 6  | John  | 25   |
| 7  | NULL  | 28   |
| 8  | Bob   | 22   |
| 9  | Alice | 30   |
+----+-----+-----+
8 rows in set (0.01 sec)
```

```
mysql> select * from emp_dimension;
```

employeeer_id	emp_name	department	department_id
301	Employee 1	HR	10
302	Employee 2	Finance	20

```
2 rows in set (0.00 sec)
```



```
mysql> select * from city_dimension;
```

city_id	city_name	state	country
1	New York	NY	USA
2	Los Angeles	CA	USA

```
2 rows in set (0.00 sec)
```



```
mysql> select * from Product_category_dimension;
```

product_id	name	pro_description	unit_prize
1	Category A	Description A	30
2	Category B	Description B	40

```
2 rows in set (0.00 sec)
```



```
mysql> select * from department_dimension;
```

department_id	department	location
10	HR	New York
20	Finance	Los Angeles

```
2 rows in set (0.00 sec)
```