

# Vidya Jyothi Institute of Technology

## Department of CSE

### AY: 2018-19

**Innovative Technique implemented:** Case-Based Learning

**Subject:** Data Base Management Systems

**Name of the Faculty:** S.Divya

**Topic:** Employee Management system

**Students:** II B.Tech I-Sem CSE-C

### Implementation:

Case-based learning (CBL) is an established approach used across disciplines where students apply their knowledge to real-world scenarios.

- Selective students working on chosen topic i.e., Employee Management system.
- Identifying objects/ entities and relationships exists among them.
- Creation of database using DDL commands by satisfying referential integrity and Insert the records using DML commands. They should construct SQL Statements using MYSQL tool.
- 3 students are assigned on Employee details, salary details and leaves
- They used key constraints, joins and views.

```
C:\Program Files\MySQL\MySQL Server 5.1\bin\mysql.exe
mysql> desc college;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| coll_name | varchar(20) | YES |  | NULL |  |
| coll_id | varchar(10) | NO | PRI | NULL |  |
| coll_add | varchar(10) | YES |  | NULL |  |
| coll_phno | int(10) | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.11 sec)

mysql> desc employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_name | varchar(20) | YES |  | NULL |  |
| emp_id | varchar(10) | NO | PRI | NULL |  |
| emp_phno | int(10) | YES |  | NULL |  |
| emp_add | varchar(20) | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> desc department;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| dep_name | varchar(20) | YES |  | NULL |  |
| dep_id | varchar(10) | YES | MUL | NULL |  |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.03 sec)

mysql> desc payroll;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_id | varchar(10) | YES | MUL | NULL |  |
| dep_id | varchar(10) | YES | MUL | NULL |  |
| basic | int(10) | YES |  | NULL |  |
| ma | int(10) | YES |  | NULL |  |
| da | int(10) | YES |  | NULL |  |
| ta | int(10) | YES |  | NULL |  |
| additions | int(10) | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
```

```

C:\Program Files\MySQL\MySQL Server 5.7\bin>mysql.exe

3 rows in set (0.03 sec)

mysql> desc payroll;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_id | varchar(10) | YES | MUL | NULL |  |
| dep_id | varchar(10) | YES | MUL | NULL |  |
| basic | int(10) | YES |  | NULL |  |
| ma | int(10) | YES |  | NULL |  |
| da | int(10) | YES |  | NULL |  |
| ta | int(10) | YES |  | NULL |  |
| additions | int(10) | YES |  | NULL |  |
| deductions | int(10) | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.02 sec)

mysql> desc leaves;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| type | varchar(20) | YES |  | NULL |  |
| leave_id | int(10) | YES |  | NULL |  |
| emp_id | varchar(10) | YES | MUL | NULL |  |
| to_date | date | YES |  | NULL |  |
| from_date | date | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.02 sec)

mysql> desc attendance;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| present | int(10) | YES |  | NULL |  |
| absent | int(10) | YES |  | NULL |  |
| total | int(10) | YES |  | NULL |  |
| emp_id | varchar(10) | YES | MUL | NULL |  |
| dep_id | varchar(10) | YES | MUL | NULL |  |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)

mysql> desc salary;

```

```

C:\Program Files\MySQL\MySQL Server 5.7\bin>mysql.exe

5 rows in set (0.01 sec)

mysql> desc salary;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| net_sal | int(10) | YES |  | NULL |  |
| sal_month | varchar(10) | YES |  | NULL |  |
| transaction_id | varchar(20) | NO | PRI | NULL |  |
| emp_id | varchar(10) | YES | MUL | NULL |  |
| dep_id | varchar(10) | YES | MUL | NULL |  |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>

```

## Outcome:

Students are able to deal with real-world scenarios. They are encouraged to think more critically about complex scenarios.

Course Instructor  
(S.Divya)

CSE-HOD