

## Exp 1

```
mysql> show databases;
```

Database
alightdb
information_schema
mydatabase
mysql
performance_schema
sys

```
6 rows in set (0.02 sec)
```

```
mysql> use alightdb;
```

```
Database changed
```

```
mysql> CREATE TABLE emp (
```

```
-> EMPNO INT NOT NULL AUTO_INCREMENT,  
-> ENAME VARCHAR(50),  
-> JOB VARCHAR(50),  
-> HIREDATE DATE,  
-> SAL DECIMAL(10, 2),  
-> COMM DECIMAL(10, 2),  
-> DEPTNO INT,  
-> MGR INT,
```

```
mysql> CREATE TABLE dept (
```

```
-> DEPTNO INT NOT NULL,  
-> DNAME VARCHAR(50),  
-> LOCATION VARCHAR(50),  
-> PRIMARY KEY (DEPTNO)  
-> );
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql>
```

```
mysql> CREATE TABLE stud_master (
```

```
-> REG_NO INT NOT NULL,  
-> S_NAME VARCHAR(50),  
-> BRANCH VARCHAR(50),  
-> PRIMARY KEY (REG_NO)  
-> );
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> CREATE TABLE stud_detail (
```

```
-> REG_NO INT NOT NULL,  
-> COURSE_CODE VARCHAR(20),  
-> COURSE_NAME VARCHAR(100),  
-> MARKS INT,  
-> SEM VARCHAR(10),  
-> PRIMARY KEY (REG_NO, COURSE_CODE)  
-> );
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> INSERT INTO emp (empno, ename, job, mgr, hiredate, sal, comm, deptno)
-> VALUES
-> (7369, 'KHAN', 'CLERK', 7902, '1980-12-17', 800, NULL, 20),
-> (7499, 'ALI', 'SALESMAN', 7698, '1981-02-20', 1600, 300, 30),
-> (7521, 'VERMA', 'SALESMAN', 7698, '1981-02-22', 1250, 500, 30),
-> (7566, 'PATEL', 'MANAGER', 7839, '1981-04-02', 2975, NULL, 20),
-> (7698, 'SHARMA', 'MANAGER', 7839, '1981-05-01', 2850, NULL, 30),
-> (7782, 'SINGH', 'MANAGER', 7839, '1981-06-09', 2450, NULL, 10);
Query OK, 6 rows affected (0.02 sec)
```

```
mysql> INSERT INTO dept (deptno, dname, location)
-> VALUES
-> (10, 'ACCOUNTING', 'MUMBAI'),
-> (20, 'RESEARCH', 'BANGALORE'),
-> (30, 'SALES', 'DELHI'),
-> (40, 'OPERATIONS', 'CHENNAI');
Query OK, 4 rows affected (0.00 sec)
```

```
mysql> INSERT INTO stud_master (REG_NO, S_NAME, BRANCH)
-> VALUES
-> (1, 'Aamir Khan', 'Computer Engineering'),
-> (2, 'Ayesha Begum', 'Electrical Engineering'),
-> (3, 'Rahul Verma', 'Mechanical Engineering'),
-> (4, 'Sara Ali', 'Computer Engineering');
Query OK, 4 rows affected (0.01 sec)
```

```
mysql> INSERT INTO stud_detail (REG_NO, COURSE_CODE, COURSE_NAME, MARKS, SEM)
-> VALUES
-> (1, 'CS101', 'Data Structures', 85, 'Sem1'),
-> (2, 'EE101', 'Circuit Analysis', 90, 'Sem1'),
-> (3, 'ME101', 'Thermodynamics', 78, 'Sem1'),
-> (4, 'CS102', 'Algorithms', 88, 'Sem1');
Query OK, 4 rows affected (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM emp;
```

EMPNO	ENAME	JOB	HIREDATE	SAL	COMM	DEPTNO
7369	KHAN	CLERK	1980-12-17	800.00	NULL	20
7499	ALI	SALESMAN	1981-02-20	1600.00	300.00	30
7521	VERMA	SALESMAN	1981-02-22	1250.00	500.00	30
7566	PATEL	MANAGER	1981-04-02	2975.00	NULL	20
7698	SHARMA	MANAGER	1981-05-01	2850.00	NULL	30
7782	SINGH	MANAGER	1981-06-09	2450.00	NULL	10

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

```
mysql> SELECT * FROM emp
      -> WHERE sal BETWEEN 1000 AND 2000;
```

EMPNO	ENAME	JOB	HIREDATE	SAL	COMM	DEPTNO
7499	ALI	SALESMAN	1981-02-20	1600.00	300.00	30
7521	VERMA	SALESMAN	1981-02-22	1250.00	500.00	30

2 rows in set (0.00 sec)

```
mysql> SELECT ename, job FROM emp
      -> WHERE job = 'CLERK' AND deptno = 20;
```

ename	job
KHAN	CLERK

1 row in set (0.00 sec)

```
mysql> SELECT DISTINCT job FROM emp;
```

job
CLERK
SALESMAN
MANAGER

3 rows in set (0.00 sec)

```
mysql> SELECT deptno, dname FROM dept
      -> ORDER BY dname;
```

deptno	dname
10	ACCOUNTING
40	OPERATIONS
20	RESEARCH
30	SALES

4 rows in set (0.00 sec)



```
mysql> SELECT * FROM stud_master;
+-----+-----+-----+
| REG_NO | S_NAME      | BRANCH                |
+-----+-----+-----+
|      1 | Aamir Khan  | Computer Engineering  |
|      2 | Ayesha Begum | Electrical Engineering |
|      3 | Rahul Verma  | Mechanical Engineering |
|      4 | Sara Ali    | Computer Engineering  |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> SELECT stud_detail.REG_NO, stud_master.S_NAME
-> FROM stud_detail
-> JOIN stud_master ON stud_detail.REG_NO = stud_master.REG_NO
-> WHERE stud_master.BRANCH = 'Computer Engineering';
+-----+-----+
| REG_NO | S_NAME      |
+-----+-----+
|      1 | Aamir Khan  |
|      4 | Sara Ali    |
+-----+-----+
2 rows in set (0.00 sec)
```

## EXP -2

EMPNO	ENAME	JOB	HIREDATE	SAL	COMM	DEPTNO	MGR	SPOUSE
101	MOHAMMED	MANAGER	2020-05-05	10000		10		
102	NOUMAN	TRAINEE	2020-05-05	10000		10		
103	RAZI	TRAINEE	2020-05-05	10000		10		
104	AHMED	MANAGER	2020-05-05	10000		10		

EMPNO	ENAME	JOB	HIREDATE	SAL	COMM	DEPTNO	MGR	SPOUSE
101	MOHAMMED	MANAGER	2020-05-05	10000		10		
102	NOUMAN	PROGRAMMER	2020-05-05	10000		10		
103	RAZI	PROGRAMMER	2020-05-05	10000		10		
104	AHMED	MANAGER	2020-05-05	10000		10		

deptno	deptname	location
20	HR	Surat

EMPNO	ENAME	JOB	HIREDATE	SAL	COMM	DEPTNO	MGR	SPOUSE
101	MOHAMMED	MANAGER	2020-05-05	10000		10		
104	AHMED	MANAGER	2020-05-05	10000		10		

EMPNO	ENAME	JOB	HIREDATE	SAL	COMM	DEPTNO	MGR	SPOUSE
101	MOHAMMED	MANAGER	2020-05-05	10000		10		
104	AHMED	MANAGER	2020-05-05	10000		10		
102	NOUMAN	PROGRAMMER	2020-05-05	10000		20		

EMPNO	ENAME	DEPTNO	DEPTNAME
101	MOHAMMED	10	THERAPIST
103	RAZI	10	THERAPIST
104	AHMED	10	THERAPIST

### Exp-3

employee_id	employee_name	department_name
3	Charlie	HR
4	David	HR
1	Alice	Sales
2	Bob	Sales
5	Eve	IT
6	Frank	IT

employee_id	employee_name	department_id	salary	job_title	manager_id	city
1	Alice	1	12000	Manager	NULL	Baroda
3	Charlie	2	11000	HR Executive	4	Baroda
5	Eve	3	13000	IT Manager	NULL	Baroda
6	Frank	3	9500	Developer	5	Baroda

```

+-----+-----+-----+
| employee_name| salary | department_id |
+-----+-----+-----+
| Alice        | 12000  | 1             |
| Charlie      | 11000  | 2             |
| Eve          | 13000  | 3             |
+-----+-----+-----+

```

```

+-----+-----+-----+-----+
| employee_name| job_title  | salary | department_name |
+-----+-----+-----+-----+
| Eve          | IT Manager | 13000  | IT              |
| Alice        | Manager   | 12000  | Sales           |
| Charlie      | HR Executive | 11000  | HR              |
| Frank        | Developer  | 9500   | IT              |
| Bob          | Salesman   | 9000   | Sales           |
+-----+-----+-----+-----+

```

```

+-----+-----+-----+-----+
| employee_id | employee_name| manager_id | manager_name |
+-----+-----+-----+-----+
| 1 | Alice      | NULL      | NULL         | |
| 2 | Bob        |           | 1 | Alice      |
| 3 | Charlie    |           | 4 | David      |
| 4 | David      |           | 5 | Eve        |
| 5 | Eve        | NULL      | NULL         |
| 6 | Frank      |           | 5 | Eve        |
+-----+-----+-----+-----+

```

```

+-----+-----+-----+-----+
| employee_name| salary | manager_name | manager_salary|
+-----+-----+-----+-----+
| Bob          | 9000  | Alice        | 12000         |
| David        | 8000  | Eve          | 13000         |
| Frank        | 9500  | Eve          | 13000         |
+-----+-----+-----+-----+

```



## EXP -4

```
mysql> SELECT * FROM client_master;
```

clientno	name	address	city	pincode	state	bal_due
1	John Doe	123 Main St	New York	10001	NY	1000.00
2	Jane Smith	456 Elm St	Los Angeles	90001	CA	500.50
3	Michael Johnson	789 Oak St	Chicago	60601	IL	750.25

```
SELECT * FROM product_master;
```

```
mysql> SELECT * FROM product_master;
```

Productno	Description	Qty_on_hand	Sell_price	Cost_price
P001	Laptop	10	1200.00	900.00
P002	Smartphone	20	800.00	600.00
P003	Tablet	15	500.00	350.00

```
SELECT * FROM salesman_master;
```

```
mysql> SELECT * FROM salesman_master;
```

Sno	S_name	Address	city	Pincode	State	Sal_amt	Tgt_to_get
101	David Brown	321 Pine St	Houston	77001	TX	5000.00	10000.00
102	Emily White	654 Cedar St	San Francisco	94101	CA	4500.00	9000.00
103	Daniel Lee	987 Maple St	Boston	02101	MA	4000.00	8000.00

3 rows in set (0.00 sec)

```
SELECT * FROM sales_order;
```

```
mysql> SELECT * FROM sales_order;
```

Orderno	clientno	orderdate	delyaddr	sno	delydate
1001	1	2024-07-01	123 Main St	101	2024-07-10
1002	2	2024-07-02	456 Elm St	102	2024-07-11
1003	3	2024-07-03	789 Oak St	103	2024-07-12

3 rows in set (0.00 sec)

```
SELECT * FROM sales_order_details;
```

```
mysql> SELECT * FROM sales_order_details;
```

Orderno	Productno	qtyordered
1001	P001	2
1001	P002	5
1002	P003	3
1003	P001	1
1003	P002	4

5 rows in set (0.00 sec)

```
mysql>
```

## EXP - 5

empno	ename	salary	dname
2	Sana Shahrulkh	6000	IT
9	Rushik	6100	SALES
7	Jamed Bond	6200	HR

empno	ename	hire_date	dname
4	Tahseen	2023-03-10	HR
8	Obama Brack	2023-03-15	IT
9	Rushik	2023-05-10	SALES

empno	ename	salary	job_title
7	Jamed Bond	6200	Manager
2	Sana Shahrulkh	6000	Developer
6	Sarah	5700	Salesperson

ename	salary	dname	job_title
Imran	5000	HR	Manager
Tahseen	5200	HR	Developer
Obama Brack	5300	IT	Developer
Misbah Khan	5500	SALES	Salesperson
Sarah	5700	SALES	Salesperson

empno	ename	job_title	deptno
7	Jamed Bond	Manager	10



## ClerkView1 from DB1.

```
mysql> USE db1;
Database changed
mysql>
mysql> SELECT * FROM ClerkView1;
```

empnumber	ename	job	sal
102	Fatima Begum	Clerk	25000.00
103	Aamir Khan	Clerk	23000.00
105	Rahul Sharma	Clerk	22000.00

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

## ClerkView1 from DB2.

```
mysql> USE db2;
Database changed
mysql>
mysql> SELECT * FROM ClerkView2;
```

empnumber	ename	job	sal
107	Imran Sheikh	Clerk	24000.00

```
1 row in set (0.00 sec)
```

## Combined ClerkView from

```
mysql> -- Combine results from both views
mysql> SELECT * FROM db1.ClerkView1
-> UNION ALL
-> SELECT * FROM db2.ClerkView2;
```

empnumber	ename	job	sal
102	Fatima Begum	Clerk	25000.00
103	Aamir Khan	Clerk	23000.00
105	Rahul Sharma	Clerk	22000.00
107	Imran Sheikh	Clerk	24000.00

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