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CRUD (Create, Read, Update, Delete) guide with basic MySQL queries



1. CREATE — Create the Table

```
CREATE TABLE employee (
    empno INT PRIMARY KEY,
    ename VARCHAR(50),
    job VARCHAR(50),
    sal DECIMAL(10,2),
    deptno INT
);
```

🔎 2. INSERT — Add Data (C = Create)

```
INSERT INTO employee (empno, ename, job, sal, deptno)
VALUES (101, 'John Doe', 'Manager', 5000.00, 10);
INSERT INTO employee (empno, ename, job, sal, deptno)
VALUES (102, 'Alice Smith', 'Clerk', 2500.00, 20);
```

🔎 3. READ — Fetch Data (R = Read)

✓ a) Select All Records

```
SELECT * FROM employee;
```

☑ b) Select Specific Columns

```
SELECT empno, ename, sal FROM employee;
```

☑ c) Filter Records (WHERE Clause)

```
SELECT * FROM employee WHERE job = 'Manager';
```

✓ d) Sort Records

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```
SELECT * FROM employee ORDER BY sal DESC;
```

e) Limit Results

```
SELECT * FROM employee LIMIT 2;
```

🗩 4. UPDATE — Modify Data (U = Update)

```
UPDATE employee
SET sal = sal + 500
WHERE empno = 101;
```

✓ Increases John's salary by 500

5. DELETE — Remove Data (D = Delete)

```
DELETE FROM employee
WHERE empno = 102;
```

✓ Deletes Alice's record



6. Additional Useful Queries

☑ a) Find employees by department

```
SELECT * FROM employee WHERE deptno = 10;
```

☑ b) Get employees earning above a certain salary

```
SELECT * FROM employee WHERE sal > 3000;
```

c) Count employees

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```
SELECT COUNT(*) FROM employee;
```

✓ d) Increase salary for a department

```
UPDATE employee
SET sal = sal * 1.1
WHERE deptno = 10;
```

✓ Summary of CRUD Queries

| Operation | Query Example |
|-----------|--|
| Create | <pre>INSERT INTO employee VALUES ();</pre> |
| Read | SELECT * FROM employee; |
| Update | UPDATE employee SET sal = sal + 500 WHERE empno = 101; |
| Delete | DELETE FROM employee WHERE empno = 102; |