1. Insert at least 5 tuples in each of the tables of the Yourname_Roll_COMPANY database in LAB-1

We already have 5 tuples for each table in the database ramkrishna_26_company.

Showing rows 0 - 5 (6 total, Query took 0.0004 seconds.)

```
SELECT * from employee;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	SSN	Ename	Gender	Bdate	Address	Salary	Ono	Years_of_experience
Edit Copy Delete	26	RamKrishnaPudasaini	M	1990-01-01	Kathmandu	30000.00	1	5
Edit Copy Delete	27	Deric	M	1990-01-01	123 Main St	30000.00	1	5
Edit Copy Delete	28	John	M	1985-05-10	456 Elm St	25000.00	2	3
Edit Copy Delete	29	Jane	F	1992-12-15	789 Oak St	28000.00	1	2
Edit Copy Delete	30	David	M	1988-08-20	321 Pine St	35000.00	2	7
Edit Copy Delete	31	Emily	F	1995-04-25	987 Cedar St	26000.00	1	1

Check all *With selected:* Edit Copy Delete Export

Show query box

Showing rows 0 - 5 (6 total, Query took 0.0003 seconds.)

```
SELECT * from office;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: No

Extra options

	Onumber	Oname	Country
Edit Copy Delete	1	RamKrishna_Office_26	Nepal
Edit Copy Delete	2	Office2	USA
Edit Copy Delete	3	Office3	USA
Edit Copy Delete	4	Office4	USA
Edit Copy Delete	5	Office5	USA
Edit Copy Delete	6	RamKrishna_9843342697_26	Nepal

Show query box

Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

```
SELECT * from project;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Pnumber	Pname	Proj_location	Onumber
Edit Copy Delete	2	Project2	Los Angeles	2
Edit Copy Delete	3	Project3	Chicago	1
Edit Copy Delete	4	Project4	San Francisco	2
Edit Copy Delete	5	Project5	Miami	1
Edit Copy Delete	52	RamkrishnaPudasaini_ProjMDS	Nepal	1

Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

```
SELECT * from dependents;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

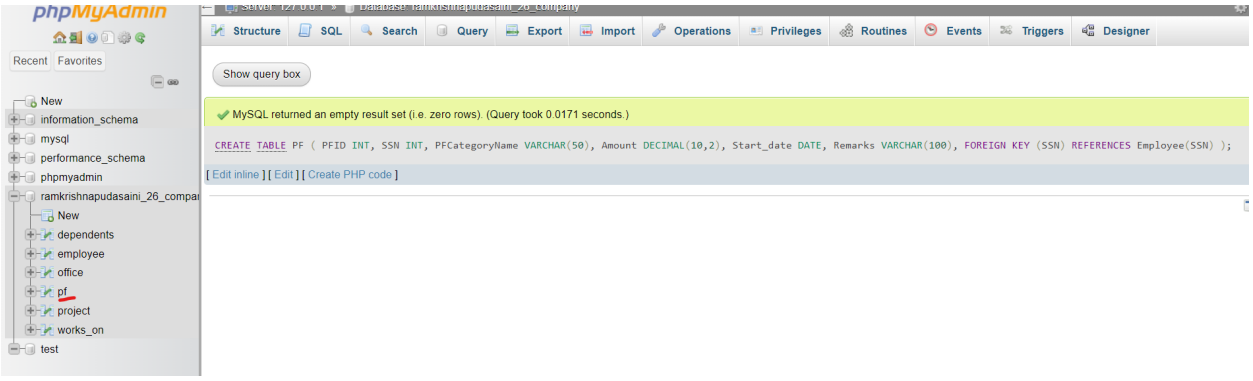
Extra options

	Did	Dname	Dage	SSN	Drelation
Edit Copy Delete	1	Denish	10	26	Brother
Edit Copy Delete	2	Gayatri	15	26	Sister
Edit Copy Delete	3	Dependent1	3	27	SomeRelation
Edit Copy Delete	4	Dependent2	4	28	
Edit Copy Delete	5	Dependent3	8	29	*NULL*

Check all *With selected:* Edit Copy Delete Export

2. In the database Yourname_Roll_COMPANY in LAB-1, Create a table PF(PFID, SSN, PFCategoryName, Amount, Start_date, Remarks); where SSN is foreign key referencing Employee. The start date should be of date type.

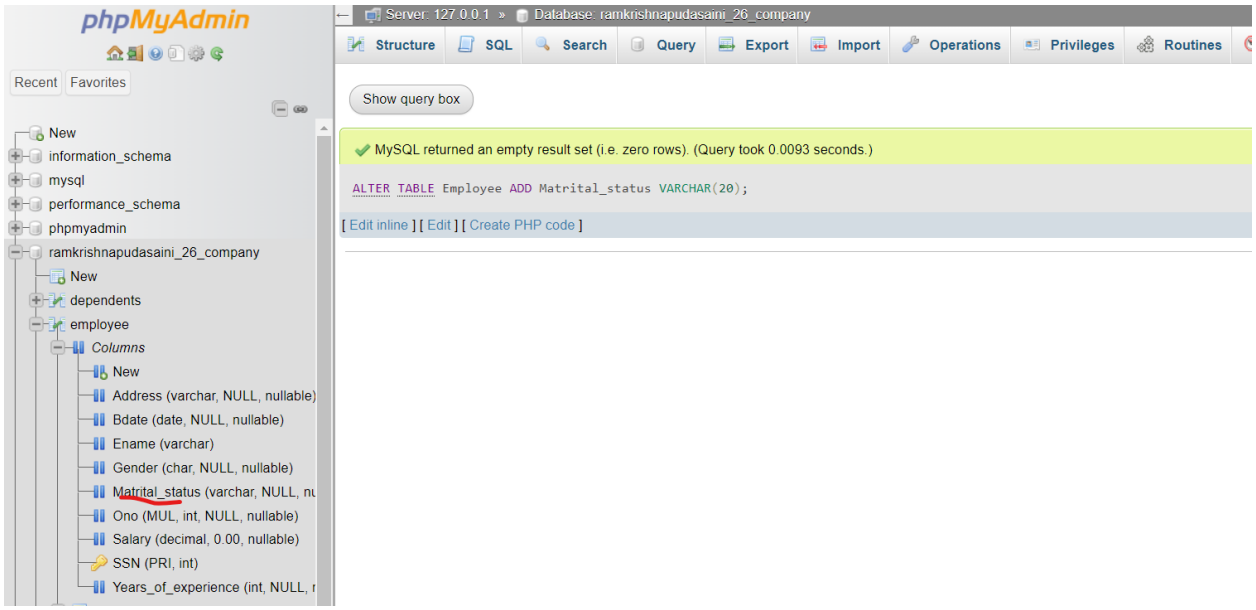
```
CREATE TABLE PF (
   PFID INT Primary Key,
   SSN INT,
   PFCategoryName VARCHAR(50),
   Amount DECIMAL(10,2),
   Start_date DATE,
   Remarks VARCHAR(100),
   FOREIGN KEY (SSN) REFERENCES Employee(SSN)
);
```



3. In the database Yourname_Roll_COMPANY in LAB-1, alter the table Employee and add an attribute Matrital_status of type varchar. Update the records in the table and set values of status to "Married", "Single", "Divorced". At least three records should have status married.

First Alter the table to add column

```
ALTER TABLE Employee
ADD Matrital_status VARCHAR(20);
```



Then update the record

```
UPDATE Employee SET Matrital_status = 'Married' WHERE SSN = 26;
```

Similarly we can update other records using the ssn ID of each employee.

4. Insert ten records in the table PF, where at least two records have the Remarks field NULL.

```
INSERT INTO PF (PFID, SSN, PFCategoryName, Amount, Start_date, Remarks) VALUES
(3, 28, 'Category 1', 1500, '2023-03-01', NULL), (4, 29, 'Category 3', 3000,
'2023-04-01', 'Remarks 4'), (5, 30, 'Category 2', 2500, '2023-05-01', 'Remarks
5'), (6, 31, 'Category 1', 1200, '2023-06-01', NULL);
```

We are unable to insert 10 records due to the volition of foreign key as there is only 6 records in the employee table

Server: 127.0.0.1 » Database: ramkrishnapudasaini_26_company » Table: pf

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges

Show query box

Showing rows 0 - 5 (6 total, Query took 0.0005 seconds.)

```
Select * from pf;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	PFID	SSN	PFCategoryName	Amount	Start_date	Remarks
Edit Copy Delete	1	26	Category 1	1000.00	2023-01-01	Remarks 1
Edit Copy Delete	2	27	Category 2	1500.00	2023-01-01	Remarks 2
Edit Copy Delete	3	28	Category 1	1500.00	2023-03-01	NULL
Edit Copy Delete	4	29	Category 3	3000.00	2023-04-01	Remarks 4
Edit Copy Delete	5	30	Category 2	2500.00	2023-05-01	Remarks 5
Edit Copy Delete	6	31	Category 1	1200.00	2023-06-01	NULL

5. Select all employees.

Showing rows 0 - 5 (6 total, Query took 0.0003 seconds.)

```
Select * from employee;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	SSN	Ename	Gender	Bdate	Address	Salary	Ono	Years_of_experience	Matrital_status
Edit Copy Delete	26	RamKrishnaPudasaini	M	1990-01-01	Kathmandu	30000.00	1	5	Married
Edit Copy Delete	27	Deric	M	1990-01-01	123 Main St	30000.00	1	5	NULL
Edit Copy Delete	28	John	M	1985-05-10	456 Elm St	25000.00	2	3	NULL
Edit Copy Delete	29	Jane	F	1992-12-15	789 Oak St	28000.00	1	2	NULL
Edit Copy Delete	30	David	M	1988-08-20	321 Pine St	35000.00	2	7	NULL
Edit Copy Delete	31	Emily	F	1995-04-25	987 Cedar St	26000.00	1	1	NULL

Check all *With selected:* Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

6. Select employees having salary greater than 30000 and list the results in descending order of Ename.

```
SELECT * FROM Employee WHERE Salary > 30000 ORDER BY Ename DESC;
```

Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.) [Ename: **DAVID... - DAVID...**]

```
SELECT * FROM Employee WHERE Salary > 30000 ORDER BY Ename DESC;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

Extra options

	SSN	Ename	Gender	Bdate	Address	Salary	Ono	Years_of_experience	Matrital_status
Edit Copy Delete	30	David	M	1988-08-20	321 Pine St	35000.00	2	7	*NULL*

Check all *With selected:* Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table

7. Retrieve the tuples from the project table. Sort the tuples on the basis of Pname.

```
SELECT * FROM project ORDER BY Pname;
```

Showing rows 0 - 4 (5 total, Query took 0.0007 seconds.) [Pname: **PROJECT2... - RAMKRISHNAPUDASAINI_PROJMDS...**]

```
SELECT * FROM project ORDER BY Pname;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Pnumber	Pname 1	Proj_location	Onumber
Edit Copy Delete	2	Project2	Los Angeles	2
Edit Copy Delete	3	Project3	Chicago	1
Edit Copy Delete	4	Project4	San Francisco	2
Edit Copy Delete	5	Project5	Miami	1
Edit Copy Delete	52	RamkrishnaPudasaini_ProjMDS	Nepal	1

8. Select the employees having salary greater than 30000 and years of experience less than 3 years.

```
SELECT * FROM Employee WHERE Salary > 30000 AND Years_of_experience < 3;
```

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
SELECT * FROM Employee WHERE Salary > 30000 AND Years_of_experience < 3;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

SSN	Ename	Gender	Bdate	Address	Salary	Ono	Years_of_experience	Matrital_status

Query results operations

Create view

9. Select the name, address, and salary of employees having salary greater than 30000 or years of experience less than 3 years.

```
SELECT Ename, Address, Salary FROM Employee WHERE Salary > 30000 OR Years_of_experience < 3;
```

Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

```
SELECT Ename, Address, Salary FROM Employee WHERE Salary > 30000 OR Years_of_experience < 3;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

				Ename	Address	Salary
Edit	Copy	Delete		Jane	789 Oak St	28000.00
Edit	Copy	Delete		David	321 Pine St	35000.00
Edit	Copy	Delete		Emily	987 Cedar St	26000.00

Check all *With selected:* Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

10. Select the all dependents.

Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

```
SELECT* from dependents;
```

[Edit inline] [Edit] [Create PHP code]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Did	Dname	Dage	SSN	Drelation
Edit Copy Delete	1	Denish	10	26	Brother
Edit Copy Delete	2	Gayatri	15	26	Sister
Edit Copy Delete	3	Dependent1	3	27	SomeRelation
Edit Copy Delete	4	Dependent2	4	28	
Edit Copy Delete	5	Dependent3	8	29	*NULL*

Check all *With selected:* Edit Copy Delete Export

11. Select the name and age of the dependents having age between 5 to 60.

```
SELECT Dname, Dage FROM Dependents WHERE Dage BETWEEN 5 AND 60;
```

Showing rows 0 - 2 (3 total, Query took 0.0007 seconds.)

```
SELECT Dname, Dage FROM Dependents WHERE Dage BETWEEN 5 AND 60;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Dname	Dage
Edit Copy Delete	Denish	10
Edit Copy Delete	Gayatri	15
Edit Copy Delete	Dependent3	8

Check all *With selected:* Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

12. Select the offices having office name like “%Nt%” as substring.

```
SELECT * FROM office WHERE Oname LIKE '%Nt%';
```

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

```
SELECT * FROM office WHERE Oname LIKE '%Nt%';
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Onumber	Oname	Country

Query results operations

Create view

There is no office name starting with Nt rather we have two offices starting from N

Show query box

Showing rows 0 - 1 (2 total, Query took 0.0005 seconds.)

```
SELECT * FROM office WHERE Oname LIKE '%N%';
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Onumber	Oname	Country
Edit Copy Delete	1	RamKrishna_Office_26	Nepal
Edit Copy Delete	6	RamKrishna_9843342697_26	Nepal

Check all *With selected:* Edit Copy Delete Export

13. Select the offices having office number in (1, 2, 3).

```
SELECT * FROM Office WHERE Onumber IN (1, 2, 3);
```

Showing rows 0 - 2 (3 total, Query took 0.0004 seconds.)

```
SELECT * FROM Office WHERE Onumber IN (1, 2, 3);
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Onumber	Oname	Country
Edit Copy Delete	1	RamKrishna_Office_26	Nepal
Edit Copy Delete	2	Office2	USA
Edit Copy Delete	3	Office3	USA

Check all *With selected:* Edit Copy Delete Export

14. Select the records from PF table where remarks is NULL

```
SELECT * FROM PF WHERE Remarks IS NULL;
```

Showing rows 0 - 1 (2 total, Query took 0.0005 seconds.)

```
SELECT * FROM PF WHERE Remarks IS NULL;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	PFID	SSN	PFCategoryName	Amount	Start_date	Remarks
Edit Copy Delete	3	28	Category 1	1500.00	2023-03-01	NULL
Edit Copy Delete	6	31	Category 1	1200.00	2023-06-01	NULL

Check all *With selected:* Edit Copy Delete Export

15. Select PF category name, amount, start date and remarks from PF where remarks is not NULL

```
SELECT PFCategoryName, Amount, Start_date, Remarks FROM PF WHERE Remarks IS
NOT NULL;
```

Showing rows 0 - 3 (4 total, Query took 0.0006 seconds.)

```
SELECT PFCategoryName, Amount, Start_date, Remarks FROM PF WHERE Remarks IS NOT NULL;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	PFCategoryName	Amount	Start_date	Remarks
Edit Copy Delete	Category 1	1000.00	2023-01-01	Remarks 1
Edit Copy Delete	Category 2	1500.00	2023-01-01	Remarks 2
Edit Copy Delete	Category 3	3000.00	2023-04-01	Remarks 4
Edit Copy Delete	Category 2	2500.00	2023-05-01	Remarks 5

Check all *With selected:* Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

16. Select the five records from PF table using LIMIT Clause.

```
SELECT * FROM PF LIMIT 5;
```

Showing rows 0 - 4 (5 total, Query took 0.0005 seconds.)

```
SELECT * FROM PF LIMIT 5;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

	PFID	SSN	PFCategoryName	Amount	Start_date	Remarks
Edit Copy Delete	1	26	Category 1	1000.00	2023-01-01	Remarks 1
Edit Copy Delete	2	27	Category 2	1500.00	2023-01-01	Remarks 2
Edit Copy Delete	3	28	Category 1	1500.00	2023-03-01	*NULL*
Edit Copy Delete	4	29	Category 3	3000.00	2023-04-01	Remarks 4
Edit Copy Delete	5	30	Category 2	2500.00	2023-05-01	Remarks 5

Check all *With selected:* Edit Copy Delete Export

17. Select the category name of PF where amount is not equal to 3000.

```
SELECT PFCategoryName FROM PF WHERE Amount != 3000;
```

Showing rows 0 - 4 (5 total, Query took 0.0004 seconds.)

```
SELECT PFCategoryName FROM PF WHERE Amount != 3000;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	PFCategoryName
Edit Copy Delete	Category 1
Edit Copy Delete	Category 2
Edit Copy Delete	Category 1
Edit Copy Delete	Category 2
Edit Copy Delete	Category 1

18. Select all employees who works on project no 2.

```
SELECT * FROM Employee WHERE SSN IN ( SELECT ESSN FROM works_on WHERE Pno = 2
);
```

Showing rows 0 - 1 (2 total, Query took 0.0007 seconds.)

```
SELECT * FROM Employee WHERE SSN IN ( SELECT ESSN FROM works_on WHERE Pno = 2 );
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	SSN	Ename	Gender	Bdate	Address	Salary	Ono	Years_of_experience	Matrital_status
Edit Copy Delete	26	RamKrishnaPudasaini	M	1990-01-01	Kathmandu	30000.00	1	5	Married
Edit Copy Delete	28	John	M	1985-05-10	456 Elm St	25000.00	2	3	*NULL*