

DBMS

Lab Assignment-III

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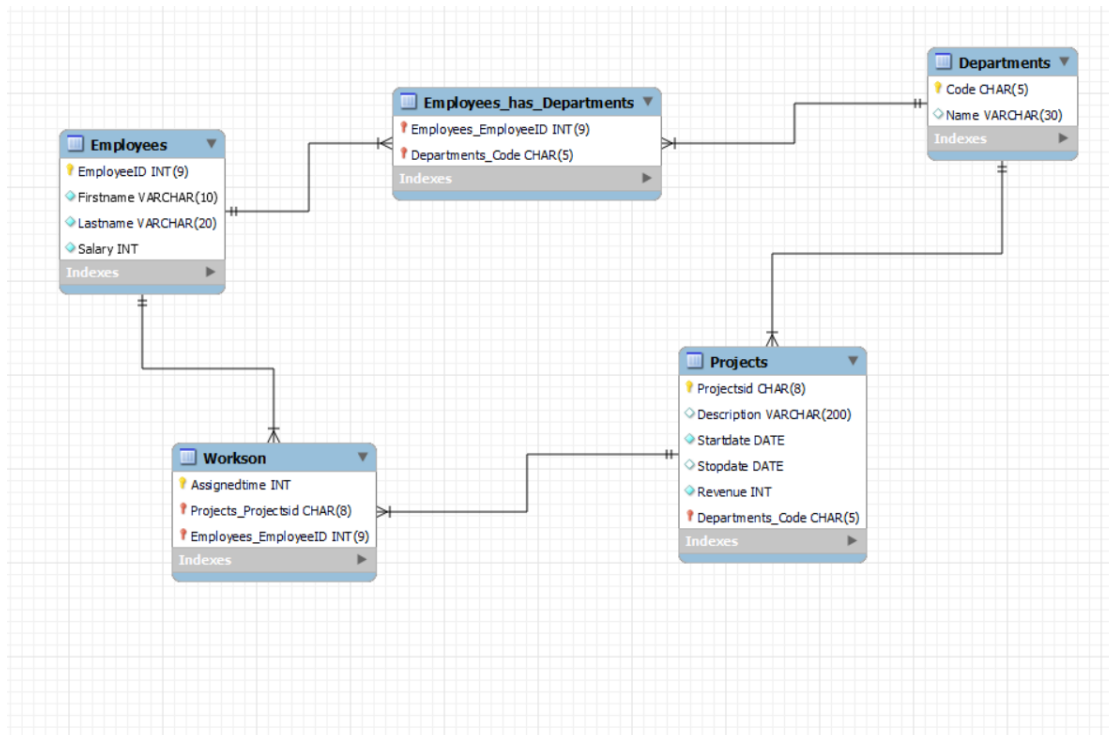
Date: 09-02-2022

Roll. No: 20BCS125

Aim: The Aim of this lab assignment is to create tables and define primary keys, foreign keys and unique keys, identifying the relationships between them using these keys and performing some operations on the table, also to create ERD.

Experiment:

ERD:



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Employee_table:

The screenshot displays a database management interface. At the top, a query editor shows the SQL command: `select *from employees`. Below the editor, a "Result Grid" shows the data for the `employees` table. The table has five columns: `EmployeeID`, `FirstName`, `LastName`, `Deptcode`, and `Salary`. The data is as follows:

EmployeeID	FirstName	LastName	Deptcode	Salary
1	Mukul	Gautam	503	60000.00
2	Adarsh	Gautam	500	40000.00
3	Aditya	Gupta	504	39000.00
4	Sachin	Chaudhan	505	30000.00
5	Ricky	Roy	501	45000.00
6	Ashish	Kumar	506	35000.00
7	Daksh	Sagar	502	60080.00
8	Nitin	Gautam	507	75000.00

Below the result grid, the "Action Output" pane shows the execution of the query. It lists four actions with their respective times and messages:

#	Time	Action	Message
91	01:15:47	insert into workson(Employeeid,Projectid,Assignedtime) values (2,107,8.9)	1 row(s) affected
92	01:18:30	insert into workson(Employeeid,Projectid,Assignedtime) values (5,103,6.7), (7,102,9.9), (3,104,9.5), (6,105,8.8),...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0
93	01:18:59	select *from workson LIMIT 0, 1000	8 row(s) returned
94	01:20:12	select *from employees LIMIT 0, 1000	8 row(s) returned

Department_table:

The screenshot displays a database management interface. At the top, a query editor shows the SQL command: `select *from departments`. Below the editor, a "Result Grid" shows the data for the `departments` table. The table has four columns: `Code`, `Name`, `Managerid`, and `Subdeptof`. The data is as follows:

Code	Name	Managerid	Subdeptof
500	cse	2	500
501	ece	5	501
502	dsai	7	502
503	mc	1	503
504	ce	3	504
505	be	4	505
506	it	6	506
507	fe	8	507

Below the result grid, the "Action Output" pane shows the execution of the query. It lists four actions with their respective times and messages:

#	Time	Action	Message
92	01:18:30	insert into workson(Employeeid,Projectid,Assignedtime) values (5,103,6.7), (7,102,9.9), (3,104,9.5), (6,105,8.8),...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0
93	01:18:59	select *from workson LIMIT 0, 1000	8 row(s) returned
94	01:20:12	select *from employees LIMIT 0, 1000	8 row(s) returned
95	01:20:33	select *from departments LIMIT 0, 1000	8 row(s) returned

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Project_table:

The screenshot shows a database management tool interface. At the top, there is a toolbar with various icons and a text input field containing the SQL query: `select *from projects`. Below the toolbar, there is a section labeled "Result Grid" which displays the data from the 'Project' table. The table has the following columns: Projectid, Deptcode, Description, Startdate, Stopdate, and Revenue. The data is as follows:

Projectid	Deptcode	Description	Startdate	Stopdate	Revenue
100	503	hellow	2018-08-23	2018-10-25	100000.00
101	507	hi	2004-01-01	2005-06-18	145000.00
102	502	tiptop	2021-07-19	2021-12-30	200000.00
103	501	hiphop	2022-01-02	NULL	120000.00
104	504	rimjim	2015-09-24	2017-02-28	300000.00
105	506	jfdlqf	2001-04-08	2009-09-27	500000.00
106	505	ksdgif	2016-04-01	2018-02-02	340000.00
107	500	kdjfdf	2022-02-13	NULL	120000.00

Below the table, there is a section labeled "Output" which shows the execution log. It contains four entries, each with a status icon, a time stamp, an action, and a message:

#	Time	Action	Message
93	01:18:59	select *from workson LIMIT 0, 1000	8 row(s) returned
94	01:20:12	select *from employees LIMIT 0, 1000	8 row(s) returned
95	01:20:33	select *from departments LIMIT 0, 1000	8 row(s) returned
96	01:20:51	select *from projects LIMIT 0, 1000	8 row(s) returned

Workson_table:

The screenshot shows a database management tool interface. At the top, there is a toolbar with various icons and a text input field containing the SQL query: `select *from workson`. Below the toolbar, there is a section labeled "Result Grid" which displays the data from the 'Workson' table. The table has the following columns: Employeeid, Projectid, and Assignedtime. The data is as follows:

Employeeid	Projectid	Assignedtime
1	100	7.80
2	107	8.90
5	103	6.70
7	102	9.90
3	104	9.50
6	105	8.80
4	106	9.20
8	101	7.60

Below the table, there is a section labeled "Output" which shows the execution log. It contains four entries, each with a status icon, a time stamp, an action, and a message:

#	Time	Action	Message
94	01:20:12	select *from employees LIMIT 0, 1000	8 row(s) returned
95	01:20:33	select *from departments LIMIT 0, 1000	8 row(s) returned
96	01:20:51	select *from projects LIMIT 0, 1000	8 row(s) returned
97	01:21:11	select *from workson LIMIT 0, 1000	8 row(s) returned

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Results:

The screenshot shows a database management tool interface. The top toolbar includes icons for file operations, search, and execution. The SQL editor contains the following query:

```
1 • select FirstName, LastName
2   from employees
3
```

The 'Result Grid' tab is active, displaying the results of the query. The results are as follows:

FirstName	LastName
Mukul	Gautam
Adarsh	Gautam
Aditya	Gupta
Sachin	Chaudhan
Ricky	Roy
Ashish	Kumar
Daksh	Sagar
Nitin	Gautam

The 'Output' tab is also visible, showing a log of actions and their results:

#	Time	Action	Message
95	01:20:33	select *from departments LIMIT 0, 1000	8 row(s) returned
96	01:20:51	select *from projects LIMIT 0, 1000	8 row(s) returned
97	01:21:11	select *from workson LIMIT 0, 1000	8 row(s) returned
98	01:23:51	select FirstName, LastName from employees LIMIT 0, 1000	8 row(s) returned

The screenshot shows the same database management tool interface. The SQL editor contains the following query:

```
1 • select* from Projects
2   where Revenue>40000;
3
```

The 'Result Grid' tab is active, displaying the results of the query. The results are as follows:

Projectid	Deptcode	Description	Startdate	Stopdate	Revenue
100	503	hellow	2018-08-23	2018-10-25	100000.00
101	507	hi	2004-01-01	2005-06-18	145000.00
102	502	tiptop	2021-07-19	2021-12-30	200000.00
103	501	hiphop	2022-01-02	2022-01-02	120000.00
104	504	rimjim	2015-09-24	2017-02-28	300000.00
105	506	jfdkdf	2001-04-08	2009-09-27	500000.00
106	505	ksdgd	2016-04-01	2018-02-02	340000.00
107	500	kdjfd	2022-02-13	2022-02-13	120000.00
total					

The 'Output' tab is also visible, showing a log of actions and their results:

#	Time	Action	Message
96	01:20:51	select *from projects LIMIT 0, 1000	8 row(s) returned
97	01:21:11	select *from workson LIMIT 0, 1000	8 row(s) returned
98	01:23:51	select FirstName, LastName from employees LIMIT 0, 1000	8 row(s) returned
99	01:26:08	select *from Projects where Revenue>40000 LIMIT 0, 1000	8 row(s) returned

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The screenshot shows a DBMS interface with a SQL query editor at the top. The query is:

```
1 select Projectid
2 from projects
3 where Startdate<="2004-07-01";
4
5
6
```

Below the query editor is a toolbar with icons for various functions. The main area displays the results of the query in a table with the following data:

Projectid
101
105
106

At the bottom, there is an 'Output' section showing the execution log:

#	Time	Action	Message
1	11:10:46	select Projectid from projects where Startdate<="2004-07-01" LIMIT 0, 1000	0 row(s) returned
2	11:19:54	select Projectid from projects where Startdate<="2004-07-01" LIMIT 0, 1000	2 row(s) returned
3	11:20:49	select * from projects LIMIT 0, 1000	8 row(s) returned
4	11:21:15	select Projectid from projects where Startdate<="2004-07-01" LIMIT 0, 1000	2 row(s) returned

The screenshot shows a DBMS interface with a SQL query editor at the top. The query is:

```
1 select Deptcode
2 from projects
3 where Revenue between 100000 and 150000;
4
```

Below the query editor is a toolbar with icons for various functions. The main area displays the results of the query in a table with the following data:

Deptcode
503
507
501
500

At the bottom, there is an 'Output' section showing the execution log:

#	Time	Action	Message	Duration / Fetch
103	01:36:41	select Projectid from projects where Revenue in(2004-07-01,2022-02-15) LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
104	01:37:14	select Projectid from projects where Startdate in(2004-07-01) LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
105	01:37:33	select Projectid from projects where Startdate in(2004-07-01,2022-02-15) LIMIT 0, 1000	0 row(s) returned	0.016 sec / 0.000 sec
106	02:13:59	select Deptcode from projects where Revenue between 100000 and 150000 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Conclusion:

From this lab assignment, we have learnt to create tables and identify foreign keys, the primary keys, and unique keys. Using these keys we could identify the relationship between tables and insert data into the table and to see the specific data of the table using the where condition.