

OBSERVATION REPORT

SQL Hands On 3

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Batch WD37

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Instructor: Sir Alfren

1. Create a query to get all employees who have more than 25 years of experience.

Showing rows 0 - 11 (12 total, Query took 0.0003 seconds.)

SELECT * FROM `employee` WHERE (NOW()-HireDate)>250000000000;

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

	EmpNo	EmpName	Job	Mgr	HireDate	Salary	Commission	DeptID
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1001	Scott	President	NULL	1978-01-01 00:00:00	5000	NULL	1001
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1058	Clark	Manager	1001	1978-01-01 00:00:00	4000	NULL	1001
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1059	Jeff	Manager	1001	1978-01-01 00:00:00	3500	500	1002
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1060	Marko	Manager	1001	1978-01-01 00:00:00	4000	NULL	1003
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1065	Bryan	Salesman	1060	1979-02-04 00:00:00	3000	300	1002
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1066	Frauline	Salesman	1060	1978-02-08 00:00:00	4000	600	1002
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1067	Phylip	Salesman	1060	1978-04-15 00:00:00	3300	0	1002
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1068	Ejerson	Clerk	1060	1978-01-15 00:00:00	2400	NULL	1002
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1069	Julie	Clerk	1065	1983-05-12 00:00:00	2000	NULL	1003
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1070	Russel	Analyst	1065	1979-03-01 00:00:00	3400	NULL	1003
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1071	Buboy	Analyst	1065	1979-03-01 00:00:00	3600	NULL	1003
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1072	Joseph	Analyst	1065	1981-01-09 00:00:00	3100	NULL	1003

2. Create a query to get employees whose names are more than 5 characters long.

Showing rows 0 - 4 (5 total, Query took 0.0111 seconds.)

SELECT * FROM `employee` WHERE CHAR_LENGTH(EmpName)>5;

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

	EmpNo	EmpName	Job	Mgr	HireDate	Salary	Commission	DeptID
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1066	Frauline	Salesman	1060	1978-02-08 00:00:00	4000	600	1002
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1067	Phylip	Salesman	1060	1978-04-15 00:00:00	3300	0	1002
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1068	Ejerson	Clerk	1060	1978-01-15 00:00:00	2400	NULL	1002
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1070	Russel	Analyst	1065	1979-03-01 00:00:00	3400	NULL	1003
<div><div></div><div>Edit</div><div>Copy</div><div>Delete</div></div>	1072	Joseph	Analyst	1065	1981-01-09 00:00:00	3100	NULL	1003

3. Create a query to display total salary combined with commission of all employees.

✔ Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

`SELECT SUM(Salary)+SUM(Commission) FROM `employee`;`

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#)

☐ Show all | Number of rows: 25 Filter rows:

Extra options

SUM(Salary)+SUM(Commission)
42700

4. Create a query to display the annual salary of all employees.

✔ Showing rows 0 - 11 (12 total, Query took 0.0002 seconds.)

`SELECT EmpNo,EmpName,Salary*12 as 'Annual Salary' FROM `employee`;`

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 Filter rows:

Extra options

	EmpNo	EmpName	Annual Salary
<input type="checkbox"/> Edit Copy Delete	1001	Scott	60000
<input type="checkbox"/> Edit Copy Delete	1058	Clark	48000
<input type="checkbox"/> Edit Copy Delete	1059	Jeff	42000
<input type="checkbox"/> Edit Copy Delete	1060	Marko	48000
<input type="checkbox"/> Edit Copy Delete	1065	Bryan	36000
<input type="checkbox"/> Edit Copy Delete	1066	Frauline	48000
<input type="checkbox"/> Edit Copy Delete	1067	Phylip	39600
<input type="checkbox"/> Edit Copy Delete	1068	Ejerson	28800
<input type="checkbox"/> Edit Copy Delete	1069	Julie	24000
<input type="checkbox"/> Edit Copy Delete	1070	Russel	40800
<input type="checkbox"/> Edit Copy Delete	1071	Buboy	43200
<input type="checkbox"/> Edit Copy Delete	1072	Joseph	37200

5. Create a query to display current Date.

Showing rows 0 - 0 (1 total, Query took 0.0001 seconds.)

```
SELECT CURDATE();
```

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☐

 Show all | Number of rows: 25

Extra options

CURDATE()

2023-02-27

6. Create a query to get all employees who don't get commission.

Showing rows 0 - 7 (8 total, Query took 0.0010 seconds.)

```
SELECT * FROM `employee` WHERE Commission IS NULL;
```

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

Extra options

	EmpNo	EmpName	Job	Mgr	HireDate	Salary	Commission	DeptID
<input type="checkbox"/> Edit Copy Delete	1001	Scott	President	NULL	1978-01-01 00:00:00	5000	NULL	1001
<input type="checkbox"/> Edit Copy Delete	1058	Clark	Manager	1001	1978-01-01 00:00:00	4000	NULL	1001
<input type="checkbox"/> Edit Copy Delete	1060	Marko	Manager	1001	1978-01-01 00:00:00	4000	NULL	1003
<input type="checkbox"/> Edit Copy Delete	1068	Ejerson	Clerk	1060	1978-01-15 00:00:00	2400	NULL	1002
<input type="checkbox"/> Edit Copy Delete	1069	Julie	Clerk	1065	1983-05-12 00:00:00	2000	NULL	1003
<input type="checkbox"/> Edit Copy Delete	1070	Russel	Analyst	1065	1979-03-01 00:00:00	3400	NULL	1003
<input type="checkbox"/> Edit Copy Delete	1071	Buboy	Analyst	1065	1979-03-01 00:00:00	3600	NULL	1003
<input type="checkbox"/> Edit Copy Delete	1072	Joseph	Analyst	1065	1981-01-09 00:00:00	3100	NULL	1003

7. Create a query to get all employees whose name contains character 'a'

Showing rows 0 - 3 (4 total, Query took 0.0002 seconds.)

```
SELECT * FROM `employee` WHERE EmpName LIKE '%a%';
```

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

Extra options

	EmpNo	EmpName	Job	Mgr	HireDate	Salary	Commission	DeptID
<input type="checkbox"/> Edit Copy Delete	1058	Clark	Manager	1001	1978-01-01 00:00:00	4000	NULL	1001
<input type="checkbox"/> Edit Copy Delete	1060	Marko	Manager	1001	1978-01-01 00:00:00	4000	NULL	1003
<input type="checkbox"/> Edit Copy Delete	1065	Bryan	Salesman	1060	1979-02-04 00:00:00	3000	300	1002
<input type="checkbox"/> Edit Copy Delete	1066	Frauline	Salesman	1060	1978-02-08 00:00:00	4000	600	1002

8. Create a query to Get All employees working with the president whose name ends with 'o'.

✔ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT * FROM `employee` WHERE Mgr=1001 AND EmpName LIKE 'o';
```

Profiling

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☐ Show all

Number of rows: 25

Filter rows:

Extra options

← T →

EmpNo

EmpName

Job

Mgr

HireDate

Salary

Commission

DeptID

☐

Edit

Copy

Delete

1060

Marko

Manager

1001

1978-01-01 00:00:00

4000

NULL

1003

9. Create a query to Get the Min , Max and Average Salary of all the employees.

✔ Showing rows 0 - 0 (1 total, Query took 0.0103 seconds.)

```
SELECT MIN(Salary),MAX(Salary),AVG(Salary) FROM `employee` ;
```

Profiling

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☐ Show all

Number of rows: 25

Filter rows:

Extra options

MIN(Salary)	MAX(Salary)	AVG(Salary)
2000	5000	3441.6667

10. Create a query to get the department details of employees working at BGC.

✔ Showing rows 0 - 1 (2 total, Query took 0.0003 seconds.)

```
SELECT employee.EmpNo, employee.EmpName, employee.DeptID, department.DeptName, department.Location FROM employee,department WHERE employee.DeptID = department.DeptID AND employee.DeptID=1001;
```

Profiling

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☐ Show all

Number of rows: 25

Filter rows:

Extra options

EmpNo	EmpName	DeptID	DeptName	Location
1001	Scott	1001	Executive	BGC
1058	Clark	1001	Executive	BGC

11. Create a query to Get the Min , Max and Average Salary of all the employees working in the Marketing Department.

✔ Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)

```
SELECT MIN(Salary),MAX(Salary),AVG(Salary) FROM `employee` WHERE DeptID=1005;
```

Profiling

[\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all

Number of rows: 25

Filter rows:

Extra options

MIN(Salary)	MAX(Salary)	AVG(Salary)
NULL	NULL	NULL

12. Create a query to get the department wise maximum, minimum and average salary on the employee table(Hint: use Inner Join).

✔ Showing rows 0 - 2 (3 total, Query took 0.0071 seconds.)

```
SELECT employee.DeptID,department.DeptName, MIN(employee.Salary), MAX(employee.Salary), AVG(employee.Salary) FROM employee INNER JOIN department ON employee.DeptID = department.DeptID GROUP BY DeptID;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

DeptID	DeptName	MIN(employee.Salary)	MAX(employee.Salary)	AVG(employee.Salary)
1001	Executive	4000	5000	4500.0000
1002	Hr	2400	4000	3240.0000
1003	IT	2000	4000	3220.0000

13. Create a query to count the total number of employees.

Your SQL query has been executed successfully.

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

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Extra options

COUNT(EmpNo)

12

14. Create a query to display distinct salaries in the employee table.

✔ Showing rows 0 - 9 (10 total, Query took 0.0002 seconds.)

```
SELECT DISTINCT Salary FROM `employee`;
```

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☐ Show all | Number of rows: 25

Extra options

	Salary
<input type="checkbox"/> Edit Copy Delete	5000
<input type="checkbox"/> Edit Copy Delete	4000
<input type="checkbox"/> Edit Copy Delete	3500
<input type="checkbox"/> Edit Copy Delete	3000
<input type="checkbox"/> Edit Copy Delete	3300
<input type="checkbox"/> Edit Copy Delete	2400
<input type="checkbox"/> Edit Copy Delete	2000
<input type="checkbox"/> Edit Copy Delete	3400
<input type="checkbox"/> Edit Copy Delete	3600
<input type="checkbox"/> Edit Copy Delete	3100

15. Create a query to get all employees whose names length is greater than 3 characters and less than 5.

✔ Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

SELECT * FROM `employee` WHERE CHAR_LENGTH(EmpName)>3 AND CHAR_LENGTH(EmpName)<5;

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

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

Extra options

	EmpNo	EmpName	Job	Mgr	HireDate	Salary	Commission	DeptID
<input type="checkbox"/> Edit Copy Delete	1059	Jeff	Manager	1001	1978-01-01 00:00:00	3500	500	1002

16. Create a query to get all employees who are getting salaries 2000, 3000, 4000, 5000.

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

SELECT * FROM `employee` WHERE Salary=2000 OR Salary=3000 OR Salary=4000 OR Salary=5000;

☐ 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

	EmpNo	EmpName	Job	Mgr	HireDate	Salary	Commission	DeptID
<input type="checkbox"/> Edit Copy Delete	1001	Scott	President	NULL	1978-01-01 00:00:00	5000	NULL	1001
<input type="checkbox"/> Edit Copy Delete	1058	Clark	Manager	1001	1978-01-01 00:00:00	4000	NULL	1001
<input type="checkbox"/> Edit Copy Delete	1060	Marko	Manager	1001	1978-01-01 00:00:00	4000	NULL	1003
<input type="checkbox"/> Edit Copy Delete	1065	Bryan	Salesman	1060	1979-02-04 00:00:00	3000	300	1002
<input type="checkbox"/> Edit Copy Delete	1066	Frauline	Salesman	1060	1978-02-08 00:00:00	4000	600	1002
<input type="checkbox"/> Edit Copy Delete	1069	Julie	Clerk	1065	1983-05-12 00:00:00	2000	NULL	1003

17. Create a query to get the top 5 highest paid employees.

✔ Showing rows 0 - 4 (5 total, Query took 0.0009 seconds.) [Salary: 5000... - 3600...]

SELECT * FROM `employee` ORDER BY Salary DESC LIMIT 5;

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

Extra options

	EmpNo	EmpName	Job	Mgr	HireDate	Salary	Commission	DeptID
<input type="checkbox"/> Edit Copy Delete	1001	Scott	President	NULL	1978-01-01 00:00:00	5000	NULL	1001
<input type="checkbox"/> Edit Copy Delete	1058	Clark	Manager	1001	1978-01-01 00:00:00	4000	NULL	1001
<input type="checkbox"/> Edit Copy Delete	1060	Marko	Manager	1001	1978-01-01 00:00:00	4000	NULL	1003
<input type="checkbox"/> Edit Copy Delete	1066	Frauline	Salesman	1060	1978-02-08 00:00:00	4000	600	1002
<input type="checkbox"/> Edit Copy Delete	1071	Buboy	Analyst	1065	1979-03-01 00:00:00	3600	NULL	1003

18. Create a query to get the least 5 salaries of the employee table.

✔ Showing rows 0 - 4 (5 total, Query took 0.0004 seconds.) [Salary: 2000... - 3300...]

SELECT * FROM `employee` ORDER BY Salary ASC LIMIT 5;

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Extra options

	EmpNo	EmpName	Job	Mgr	HireDate	Salary	Commission	DeptID
<input type="checkbox"/> Edit Copy Delete	1069	Julie	Clerk	1065	1983-05-12 00:00:00	2000	NULL	1003
<input type="checkbox"/> Edit Copy Delete	1068	Ejerson	Clerk	1060	1978-01-15 00:00:00	2400	NULL	1002
<input type="checkbox"/> Edit Copy Delete	1065	Bryan	Salesman	1060	1979-02-04 00:00:00	3000	300	1002
<input type="checkbox"/> Edit Copy Delete	1072	Joseph	Analyst	1065	1981-01-09 00:00:00	3100	NULL	1003
<input type="checkbox"/> Edit Copy Delete	1067	Phylip	Salesman	1060	1978-04-15 00:00:00	3300	0	1002

19. Create a query to get the total no departments in the organization.

Your SQL query has been executed successfully.

SELECT COUNT(DeptID) FROM `department`;

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

Extra options

COUNT(DeptID)

5

20. Create a query to get the Highest paid department with the average salary.

✔ Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)

SELECT employee.DeptID,department.DeptName, MAX(employee.Salary), AVG(employee.Salary) FROM employee INNER JOIN department ON employee.DeptID = department.DeptID GROUP BY DeptID LIMIT 1;

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Extra options

DeptID	DeptName	MAX(employee.Salary)	AVG(employee.Salary)
1001	Executive	5000	4500.0000