

## ASSIGNMENT-4

Name- hitesh ankodia

### Creating database

The screenshot shows the DB Browser for SQLite interface. The main window displays the SQL editor with the following code:

```
1 create table employee(  
2   id int(11), name varchar(100), department varchar(100), salary int(100)  
3 );  
4  
5 insert into employee(id, name, department, salary) values(1, "harsh", "teaching", 30000);  
6 insert into employee(id, name, department, salary) values(2, "hussain", "accounts", 32000);  
7 insert into employee(id, name, department, salary) values(3, "prashant", "teaching", 34000);  
8 insert into employee(id, name, department, salary) values(4, "rahul", "accounts", 35000);  
9  
10 select * from employee;  
11
```

Below the SQL editor, the results of the query are displayed in a table:

	id	name	department	salary
1	1	harsh	teaching	30000
2	2	hussain	accounts	32000
3	3	prashant	teaching	34000
4	4	rahul	accounts	35000

At the bottom, the execution status is shown:

Execution finished without errors.  
Result: 4 rows returned in 633ms  
At line 10:  
select \* from employee;

The right sidebar shows the 'Edit Database Cell' window with 'Mode: Text' and 'Type of data currently in cell: NULL'. The 'Remote' section shows 'Identity: Select an identity to connect' and 'DBHub.io Local Current Database'.

### Using logical AND

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main.sql

```
1 create table employee(  
2 id int(11),name varchar(100),department varchar(100),salary int(100)  
3 );  
4  
5 insert into employee(id, name, department, salary)values(1, "harsh","teaching",30000);  
6 insert into employee(id, name, department, salary)values(2, "hussain","accounts",32000);  
7 insert into employee(id, name, department, salary)values(3, "prashant","teaching",34000);  
8 insert into employee(id, name, department, salary)values(4, "rahul","accounts",35000);  
9  
10 select * from employee  
11 Where department ="teaching" AND salary >=30000  
12  
13
```

input

```
1|harsh|teaching|30000  
3|prashant|teaching|34000  
  
...Program finished with exit code 0  
Press ENTER to exit console
```

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## Using logical OR

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main.sql

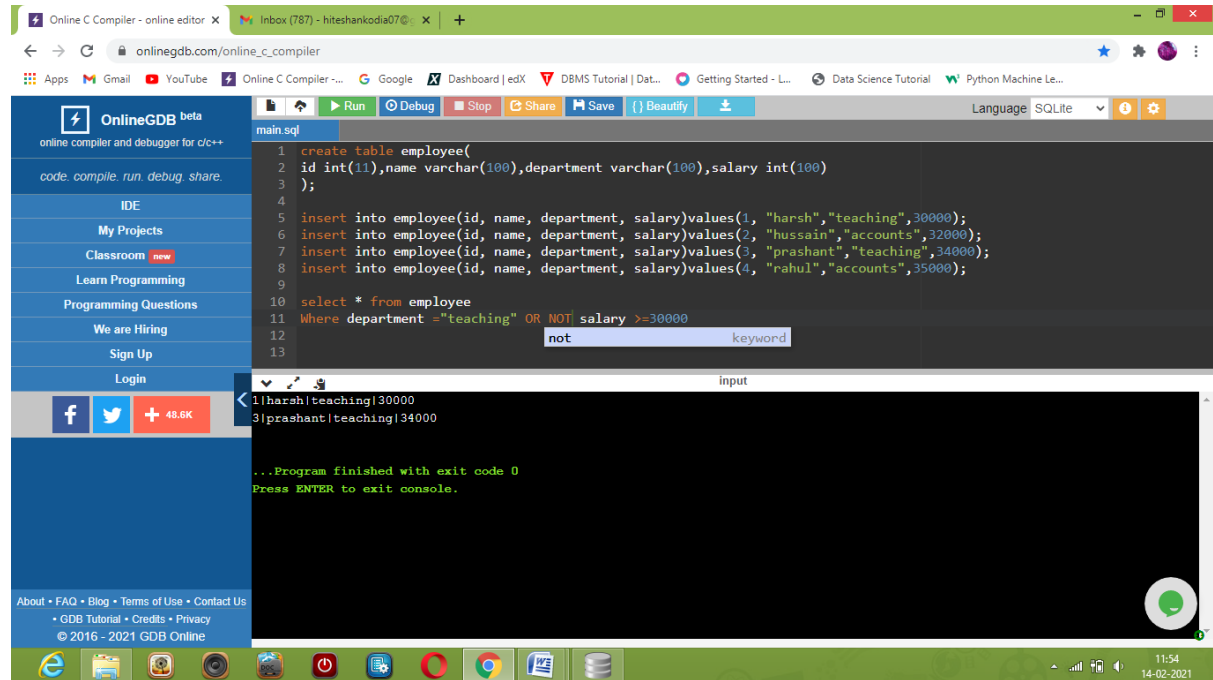
```
1 create table employee(  
2 id int(11),name varchar(100),department varchar(100),salary int(100)  
3 );  
4  
5 insert into employee(id, name, department, salary)values(1, "harsh","teaching",30000);  
6 insert into employee(id, name, department, salary)values(2, "hussain","accounts",32000);  
7 insert into employee(id, name, department, salary)values(3, "prashant","teaching",34000);  
8 insert into employee(id, name, department, salary)values(4, "rahul","accounts",35000);  
9  
10 select * from employee  
11 Where department ="teaching" OR salary >=30000  
12  
13
```

input

```
1|harsh|teaching|30000  
2|hussain|accounts|32000  
3|prashant|teaching|34000  
4|rahul|accounts|35000  
  
...Program finished with exit code 0  
Press ENTER to exit console
```

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## Using logical NOT



The screenshot shows the OnlineGDB beta IDE interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, We are Hiring, Sign Up, and Login. The main editor area displays a SQL script in the 'main.sql' file. The script creates an 'employee' table with columns 'id', 'name', 'department', and 'salary'. It then inserts four records: (1, 'harsh', 'teaching', 30000), (2, 'hussain', 'accounts', 32000), (3, 'prashant', 'teaching', 34000), and (4, 'rahul', 'accounts', 35000). The final query is 'select \* from employee where department != "teaching" OR NOT salary >= 30000'. The output window shows the results of the query: '1|harsh|teaching|30000' and '3|prashant|teaching|34000'. The console at the bottom indicates the program finished with exit code 0.

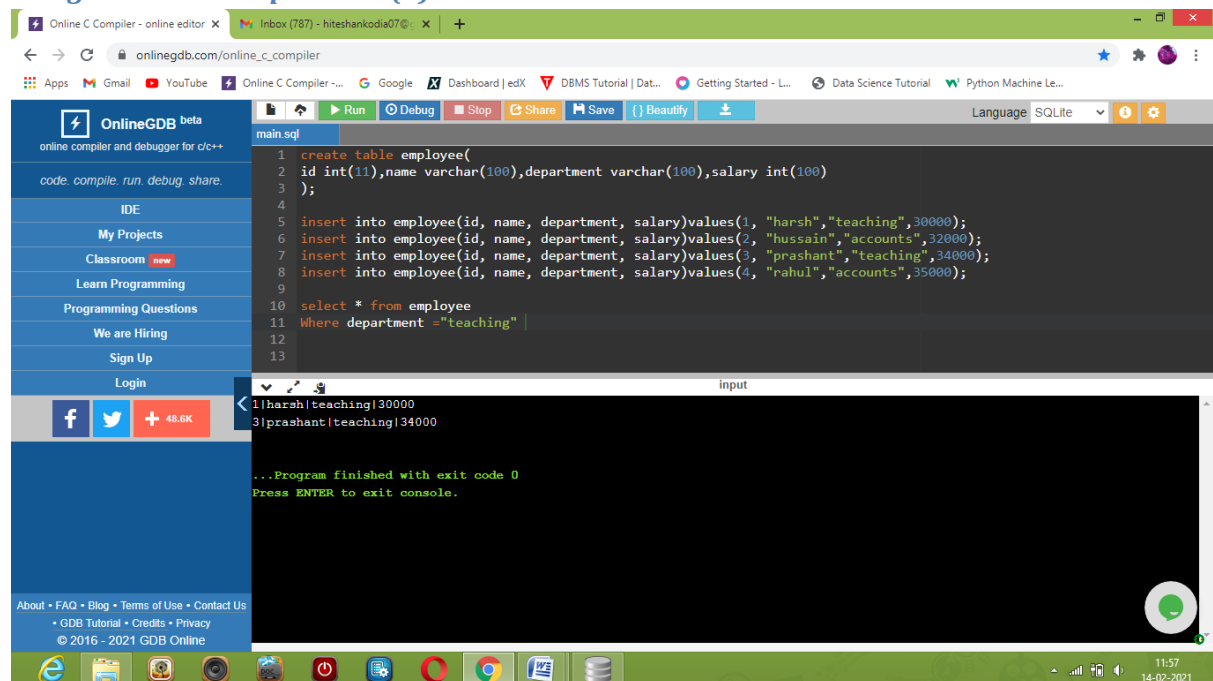
```
1 create table employee(
2 id int(11),name varchar(100),department varchar(100),salary int(100)
3 );
4
5 insert into employee(id, name, department, salary)values(1, "harsh","teaching",30000);
6 insert into employee(id, name, department, salary)values(2, "hussain","accounts",32000);
7 insert into employee(id, name, department, salary)values(3, "prashant","teaching",34000);
8 insert into employee(id, name, department, salary)values(4, "rahul","accounts",35000);
9
10 select * from employee
11 where department != "teaching" OR NOT salary >= 30000
12
13
```

input

```
1|harsh|teaching|30000
3|prashant|teaching|34000
```

...Program finished with exit code 0  
Press ENTER to exit console.

## Using arithmetic operators (=)



The screenshot shows the OnlineGDB beta IDE interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, We are Hiring, Sign Up, and Login. The main editor area displays a SQL script in the 'main.sql' file. The script creates an 'employee' table with columns 'id', 'name', 'department', and 'salary'. It then inserts four records: (1, 'harsh', 'teaching', 30000), (2, 'hussain', 'accounts', 32000), (3, 'prashant', 'teaching', 34000), and (4, 'rahul', 'accounts', 35000). The final query is 'select \* from employee where department = "teaching"'. The output window shows the results of the query: '1|harsh|teaching|30000' and '3|prashant|teaching|34000'. The console at the bottom indicates the program finished with exit code 0.

```
1 create table employee(
2 id int(11),name varchar(100),department varchar(100),salary int(100)
3 );
4
5 insert into employee(id, name, department, salary)values(1, "harsh","teaching",30000);
6 insert into employee(id, name, department, salary)values(2, "hussain","accounts",32000);
7 insert into employee(id, name, department, salary)values(3, "prashant","teaching",34000);
8 insert into employee(id, name, department, salary)values(4, "rahul","accounts",35000);
9
10 select * from employee
11 where department = "teaching"
12
13
```

input

```
1|harsh|teaching|30000
3|prashant|teaching|34000
```

...Program finished with exit code 0  
Press ENTER to exit console.

Using <,>

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main.sql

```

1 create table employee(
2 id int(11),name varchar(100),department varchar(100),salary int(100)
3 );
4
5 insert into employee(id, name, department, salary)values(1, "harsh","teaching",30000);
6 insert into employee(id, name, department, salary)values(2, "hussain","accounts",32000);
7 insert into employee(id, name, department, salary)values(3, "prashant","teaching",34000);
8 insert into employee(id, name, department, salary)values(4, "rahul","accounts",35000);
9
10 select * from employee
11 Where salary <=32000 OR salary >=30000
12
13

```

input

```

1|harsh|teaching|30000
2|hussain|accounts|32000
3|prashant|teaching|34000
4|rahul|accounts|35000

```

...Program finished with exit code 0  
Press ENTER to exit console.

11:59  
14-02-2021

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main.sql

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1 create table employee(
2 id int(11),name varchar(100),department varchar(100),salary int(100)
3 );
4
5 insert into employee(id, name, department, salary)values(1, "harsh","teaching",30000);
6 insert into employee(id, name, department, salary)values(2, "hussain","accounts",32000);
7 insert into employee(id, name, department, salary)values(3, "prashant","teaching",34000);
8 insert into employee(id, name, department, salary)values(4, "rahul","accounts",35000);
9
10 select id, name, department, salary, 0.1*salary, salary+0.1*salary
11 from employee
12
13
14

```

input

```

1|harsh|teaching|30000|3000.0|33000.0
2|hussain|accounts|32000|3200.0|35200.0
3|prashant|teaching|34000|3400.0|37400.0
4|rahul|accounts|35000|3500.0|38500.0

```

...Program finished with exit code 0  
Press ENTER to exit console.

12:03  
14-02-2021