

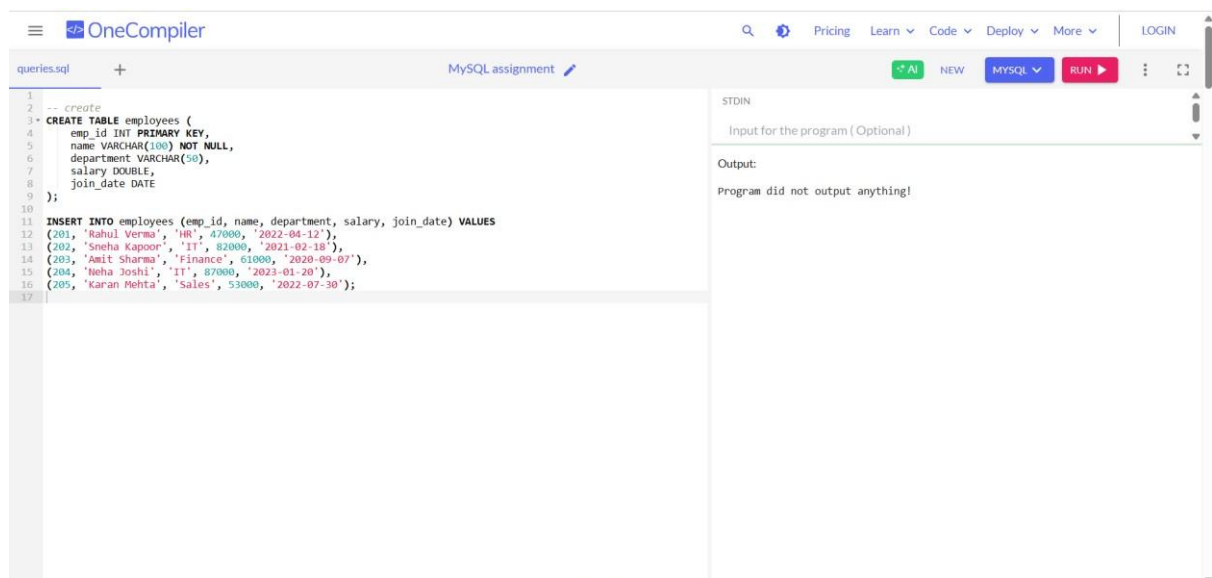
NAME: Punit Manoj Bhatarkar

1) CREATING TABLE

```
CREATE TABLE employees (  
    emp_id INT PRIMARY KEY,    name  
    VARCHAR(100) NOT NULL,  
    department VARCHAR(50),  
    salary DOUBLE,    join_date DATE  
);
```

2) INSERT QUERY

```
INSERT INTO employees (emp_id, name, department, salary, join_date) VALUES  
  
(201, 'Rahul Verma', 'HR', 47000, '2022-04-12'),  
  
(202, 'Sneha Kapoor', 'IT', 82000, '2021-02-18'),  
  
(203, 'Amit Sharma', 'Finance', 61000, '2020-09-07'),  
  
(204, 'Neha Joshi', 'IT', 87000, '2023-01-20'),  
(205, 'Karan Mehta', 'Sales', 53000, '2022-07-30');
```



3) SELECT QUERY

- SELECT * FROM employees;

The screenshot shows the OneCompiler interface with a MySQL assignment. The SQL code in the editor is as follows:

```
1 -- create
2
3 CREATE TABLE employees (
4   emp_id INT PRIMARY KEY,
5   name VARCHAR(100) NOT NULL,
6   department VARCHAR(50),
7   salary DOUBLE,
8   join_date DATE
9 );
10
11 INSERT INTO employees (emp_id, name, department, salary, join_date) VALUES
12 (201, 'Rahul Verma', 'HR', 47000, '2022-04-12'),
13 (202, 'Sneha Kapoor', 'IT', 82000, '2021-02-18'),
14 (203, 'Amit Sharma', 'Finance', 61000, '2020-09-07'),
15 (204, 'Neha Joshi', 'IT', 87000, '2023-01-20'),
16 (205, 'Karan Mehta', 'Sales', 53000, '2022-07-30');
17
18 SELECT * FROM employees;
```

The output window displays the following table:

emp_id	name	department	salary	join_date
201	Rahul Verma	HR	47000	2022-04-12
202	Sneha Kapoor	IT	82000	2021-02-18
203	Amit Sharma	Finance	61000	2020-09-07
204	Neha Joshi	IT	87000	2023-01-20
205	Karan Mehta	Sales	53000	2022-07-30

- SELECT name, department FROM employees;

The screenshot shows the OneCompiler interface with a MySQL assignment. The SQL code in the editor is as follows:

```
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3 CREATE TABLE employees (
4   emp_id INT PRIMARY KEY,
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15 (204, 'Neha Joshi', 'IT', 87000, '2023-01-20'),
16 (205, 'Karan Mehta', 'Sales', 53000, '2022-07-30');
17
18 SELECT name, department FROM employees;
```

The output window displays the following table:

name	department
Rahul Verma	HR
Sneha Kapoor	IT
Amit Sharma	Finance
Neha Joshi	IT
Karan Mehta	Sales

- `SELECT * FROM employees WHERE department = 'IT';`

The screenshot shows the OneCompiler MySQL assignment interface. The SQL editor contains the following code:

```

1  -- create
2
3  CREATE TABLE employees (
4      emp_id INT PRIMARY KEY,
5      name VARCHAR(100) NOT NULL,
6      department VARCHAR(50),
7      salary DOUBLE,
8      join_date DATE
9  );
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15 (204, 'Neha Joshi', 'IT', 87000, '2023-01-20'),
16 (205, 'Karan Mehta', 'Sales', 53000, '2022-07-30');
17
18 SELECT * FROM employees WHERE department = 'IT';
19
20

```

The output section displays the results of the query:

emp_id	name	department	salary	join_date
202	Sneha Kapoor	IT	82000	2021-02-18
204	Neha Joshi	IT	87000	2023-01-20

4) AND, IN BETWEEN & LIKE

- `SELECT * FROM employees WHERE department = 'IT' AND salary > 75000;`

The screenshot shows the OneCompiler MySQL assignment interface. The SQL editor contains the following code:

```

1  -- create
2
3  CREATE TABLE employees (
4      emp_id INT PRIMARY KEY,
5      name VARCHAR(100) NOT NULL,
6      department VARCHAR(50),
7      salary DOUBLE,
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14 (203, 'Amit Sharma', 'Finance', 61000, '2020-09-07'),
15 (204, 'Neha Joshi', 'IT', 87000, '2023-01-20'),
16 (205, 'Karan Mehta', 'Sales', 53000, '2022-07-30');
17
18 SELECT * FROM employees WHERE department = 'IT' AND salary > 75000;
19
20
21

```

The output section displays the results of the query:

emp_id	name	department	salary	join_date
202	Sneha Kapoor	IT	82000	2021-02-18
204	Neha Joshi	IT	87000	2023-01-20

- `SELECT * FROM employees WHERE department IN ('IT', 'Finance');`

OneCompiler

queries.sql + MySQL assignment

```

1  -- create
2  -- CREATE TABLE employees (
3  4  emp_id INT PRIMARY KEY,
4  5  name VARCHAR(100) NOT NULL,
5  6  department VARCHAR(50),
6  7  salary DOUBLE,
7  8  join_date DATE
8  9  );
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15 (204, 'Neha Joshi', 'IT', 87000, '2023-01-20'),
16 (205, 'Karan Mehta', 'Sales', 53000, '2022-07-30');
17
18 SELECT * FROM employees WHERE department IN ('IT', 'Finance');
19
20
21
22

```

STDIN

Input for the program (Optional)

Output:

emp_id	name	department	salary	join_date
202	Sneha Kapoor	IT	82000	2021-02-18
203	Amit Sharma	Finance	61000	2020-09-07
204	Neha Joshi	IT	87000	2023-01-20

- SELECT * FROM employees WHERE salary BETWEEN 50000 AND 70000;

OneCompiler

queries.sql + MySQL assignment

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2  -- CREATE TABLE employees (
3  4  emp_id INT PRIMARY KEY,
4  5  name VARCHAR(100) NOT NULL,
5  6  department VARCHAR(50),
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15 (204, 'Neha Joshi', 'IT', 87000, '2023-01-20'),
16 (205, 'Karan Mehta', 'Sales', 53000, '2022-07-30');
17
18 SELECT * FROM employees WHERE salary BETWEEN 50000 AND 70000;
19
20
21
22

```

STDIN

Input for the program (Optional)

Output:

emp_id	name	department	salary	join_date
203	Amit Sharma	Finance	61000	2020-09-07
205	Karan Mehta	Sales	53000	2022-07-30

- SELECT * FROM employees WHERE name LIKE 'N%'; -- Names starting with J

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queries.sql

MySQL assignment

NEW
MYSQ
RUN

```

1
2 -- create
3 CREATE TABLE employees (
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5   name VARCHAR(100) NOT NULL,
6   department VARCHAR(50),
7   salary DOUBLE,
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15 (204, 'Neha Joshi', 'IT', 87000, '2023-01-20'),
16 (205, 'Karan Mehta', 'Sales', 53000, '2022-07-30');
17
18 SELECT * FROM employees WHERE name LIKE 'N%';
19
20
21

```

STDIN

Input for the program (Optional)

Output:

emp_id	name	department	salary	join_date
204	Neha Joshi	IT	87000	2023-01-20

5) CLAUSE -ORDER BY, WHERE, HAVING

SELECT * FROM employees
ORDER BY salary DESC;

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queries.sql

MySQL assignment

NEW
MYSQ
RUN

```

1
2 -- create
3 CREATE TABLE employees (
4   emp_id INT PRIMARY KEY,
5   name VARCHAR(100) NOT NULL,
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15 (204, 'Neha Joshi', 'IT', 87000, '2023-01-20'),
16 (205, 'Karan Mehta', 'Sales', 53000, '2022-07-30');
17
18 SELECT * FROM employees
19 ORDER BY salary DESC;
20
21
22

```

STDIN

Input for the program (Optional)

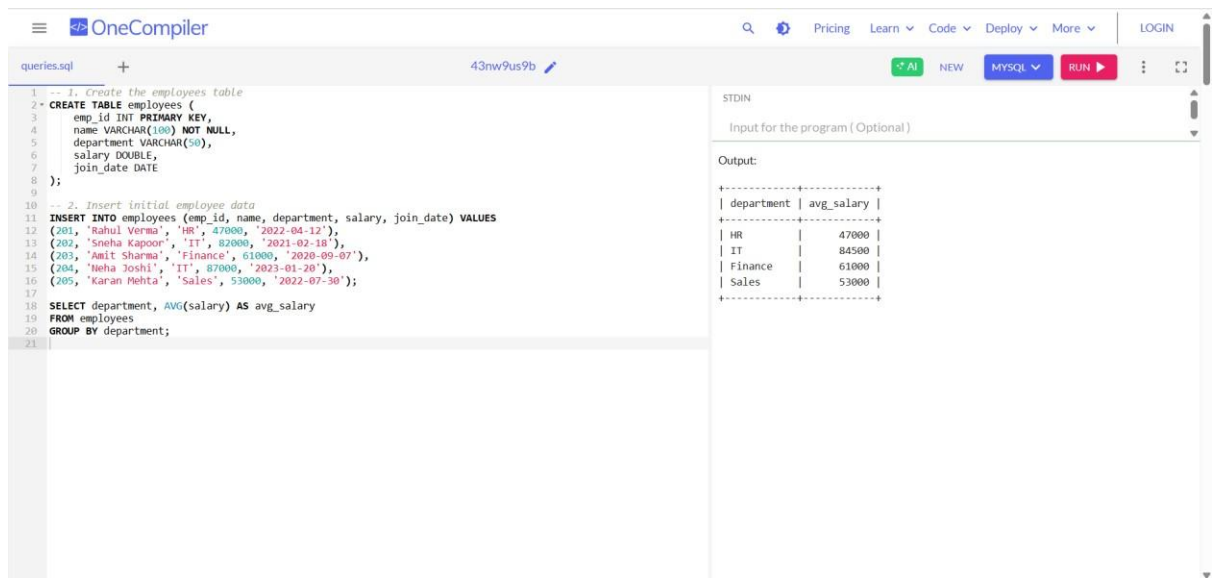
Output:

emp_id	name	department	salary	join_date
204	Neha Joshi	IT	87000	2023-01-20
202	Sneha Kapoor	IT	82000	2021-02-18
203	Amit Sharma	Finance	61000	2020-09-07
205	Karan Mehta	Sales	53000	2022-07-30
201	Rahul Verma	HR	47000	2022-04-12

6) UPDATE QUERY

- SELECT department, AVG(salary) AS avg_salary FROM employees

GROUP BY department;



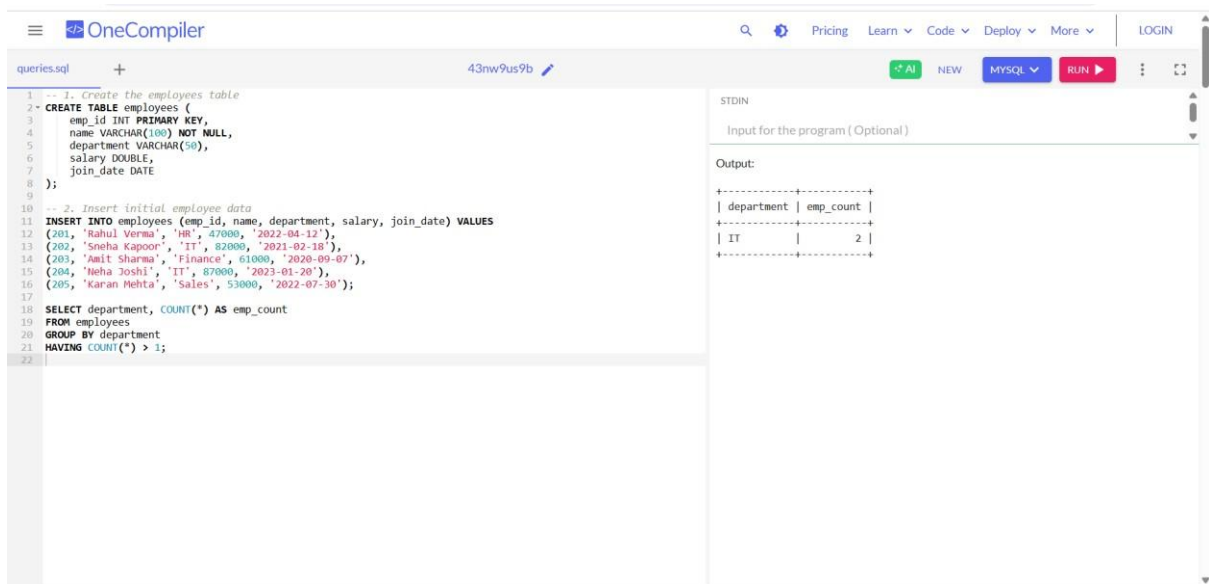
The screenshot shows the OneCompiler MySQL interface. The query editor contains the following SQL code:

```
1 -- 1. Create the employees table
2 CREATE TABLE employees (
3   emp_id INT PRIMARY KEY,
4   name VARCHAR(100) NOT NULL,
5   department VARCHAR(50),
6   salary DOUBLE,
7   join_date DATE
8 );
9
10 -- 2. Insert initial employee data
11 INSERT INTO employees (emp_id, name, department, salary, join_date) VALUES
12 (201, 'Rahul Verma', 'HR', 47000, '2022-04-12'),
13 (202, 'Sneha Kapoor', 'IT', 82000, '2021-02-18'),
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15 (204, 'Neha Joshi', 'IT', 87000, '2023-01-20'),
16 (205, 'Karan Mehta', 'Sales', 53000, '2022-07-30');
17
18 SELECT department, AVG(salary) AS avg_salary
19 FROM employees
20 GROUP BY department;
```

The output window displays the result of the query:

department	avg_salary
HR	47000
IT	84500
Finance	61000
Sales	53000

- SELECT department, COUNT(*) AS emp_count
FROM employees
GROUP BY department
HAVING COUNT(*) > 1;



The screenshot shows the OneCompiler MySQL interface. The query editor contains the following SQL code:

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1 -- 1. Create the employees table
2 CREATE TABLE employees (
3   emp_id INT PRIMARY KEY,
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15 (204, 'Neha Joshi', 'IT', 87000, '2023-01-20'),
16 (205, 'Karan Mehta', 'Sales', 53000, '2022-07-30');
17
18 SELECT department, COUNT(*) AS emp_count
19 FROM employees
20 GROUP BY department
21 HAVING COUNT(*) > 1;
```

The output window displays the result of the query:

department	emp_count
IT	2