

**Task 1:** - Perform the different calculations on table using Aggerate function in SQL

**1) COUNT ()**

```
SELECT COUNT(*)  
FROM holder;
```

| COUNT (*) |
|-----------|
| 4         |

**COUNT with WHERE**

```
SELECT COUNT(*)  
  
FROM holder  
  
WHERE age>=21;
```

| COUNT (*) |
|-----------|
| 2         |

**COUNT() with GROUP BY**

```
SELECT age, COUNT(*)  
  
FROM holder  
  
GROUP BY age;
```

| Age | COUNT (*) |
|-----|-----------|
| 20  | 2         |
| 21  | 1         |
| 22  | 1         |

**2) SUM ()**

```
SELECT SUM(ammount)  
FROM plan;
```

| SUM ( Ammont) |
|---------------|
| 600000        |

## **SELECT with WHERE**

SELECT SUM(ammount)

FROM Plan

WHERE duration>=2;

| <b>SUM ( Ammont)</b> |
|----------------------|
| 500000               |

## **SELECT () with GROUP BY**

SELECT SUM(ammount)

FROM plan

WHERE duration>=1

GROUP BY duration;

| <b>Duration</b> | <b>SUM ( Ammont)</b> |
|-----------------|----------------------|
| 1               | 100000               |
| 3               | 500000               |

## **3) AVG ()**

SELECT AVG(ammount)

FROM plan;

| <b>AVG ( Ammont)</b> |
|----------------------|
| 200000.0             |

## **4) MIN ()**

SELECT AVG(ammount)

FROM plan;

| <b>MIN ( Ammont)</b> |
|----------------------|
| 100000               |

### 5) MAX ()

```
SELECT (ammount)  
FROM plan;
```

| <b>MAX ( Ammont)</b> |
|----------------------|
| 300000               |

### Task 2: - Perform Operation on table using GROUP BY Function

```
SELECT p_id,type, SUM (ammount) FROM plan  
  
GROUP BY duration;
```

| <b>P_id</b> | <b>Type</b> | <b>Sum(ammount)</b> |
|-------------|-------------|---------------------|
| 121         | Normal      | 100000              |
| 122         | Super       | 500000              |

### Task 3: - Perform Operation on table using ORDER BY Function

```
SELECT * FROM plan  
  
ORDER BY type;
```

| <b>P_id</b> | <b>Type</b> | <b>Ammount</b> | <b>Duration</b> |
|-------------|-------------|----------------|-----------------|
| 121         | Normal      | 100000         | 1               |
| 123         | Special     | 300000         | 4               |
| 122         | Super       | 500000         | 3               |

**Conclusion: -**

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| <b>Date of Performance by<br/>Student</b> | <b>Date of Assessment by<br/>Staff</b> | <b>Staff Signature</b> | <b>Remark</b> |
|---|--|------------------------|---------------|
|   |  |                        |               |