Thanks, Pratheek! You're doing a great **cloud computing experiment**, and I'll walk you through **both parts**:

🔬 Experiment Steps — With Full Instructions

✅ Step 1: Create VPC, Subnet, Route Table, and Internet Gateway

These are **networking components** that your RDS database needs to run inside a secure environment.

🌐 A. Create a VPC

1. Go to AWS Console → Search **VPC** → Click **"Your VPCs"**
2. Click **Create VPC**
   - Name tag: `MyVPC`
   - IPv4 CIDR block: `10.0.0.0/16`
   - Leave others default
3. Click **Create VPC**

🌐 B. Create a Subnet

1. Go to **Subnets** → Click **Create subnet**
2. Select **MyVPC**
3. Name tag: `MySubnet`
4. Availability Zone: Choose any (e.g., `us-east-1a`)
5. IPv4 CIDR block: `10.0.1.0/24`
6. Click **Create subnet**

🌐 C. Create an Internet Gateway

1. Go to **Internet Gateways** → Click **Create Internet Gateway**
2. Name tag: `MyIGW` → Click **Create**
3. Select it → Click **Actions** → **Attach to VPC**
4. Choose **MyVPC**

🌐 D. Create Route Table & Associate

1. Go to **Route Tables** → Click **Create route table**
2. Name tag: `MyRouteTable`
3. Select **MyVPC**

4. Click **Create**

🔁 Now edit routes:

1. Select your route table → Go to **Routes tab** → **Edit routes**
2. Add route: `0.0.0.0/0` → Target: Select **MyIGW**
3. Save

📎 Then associate with subnet:

1. Go to **Subnet Associations tab** → **Edit subnet associations**
2. Check `MySubnet` → Save

✅ Step 2: Create Relational Database OR Estimate Cost

Now choose **one of two paths**:

📍 Option A: Create RDS SQL Server (Actual DB)

1. Go to AWS Console → Search **RDS**
2. Click **Create Database**
3. **Choose "Standard create"**
4. **Engine options**:
    - Engine type: **SQL Server**
    - Edition: e.g., **SQL Server Standard**
5. Choose **RDS Custom** (not RDS managed)
6. Choose deployment option: **Multi-AZ or Single-AZ**
7. **Licensing model**: Bring your own or license included
8. Select **DB instance size** (e.g., `db.m5.large`)
9. Set DB name, username, password
10. Choose **VPC = MyVPC**, Subnet = MySubnet
11. Enable **Public access = Yes** if needed

Click **Create Database**

🕒 Wait for 5-10 mins to complete setup.

📍 Option B: Use AWS Pricing Calculator for RDS SQL Server

1. Go to: https://calculator.aws.amazon.com
2. Click **Create Estimate**

3. Click **Add Service** → Choose **RDS**
4. Fill in details:
    - **Region**: your region (e.g., `` `US East (N. Virginia)` ``)
    - **Database engine**: **SQL Server**
    - **Edition**: Choose one (e.g., **Enterprise** or **Standard**)
    - **Deployment**: Choose **RDS Custom**
    - **License**: Choose between **License Included** or **BYOL**
    - **Pricing Model**: On-demand or Reserved
    - **Instance type**: e.g., `` `db.m5.large` ``
    - **Storage**: e.g., 100 GiB
5. Scroll down → Click **Add to My Estimate**
6. On the right side → Click **View Summary**
7. Click **Export** → **PDF**

📝 This PDF will contain your estimated monthly cost — you can now print or attach it to your lab report.

📄 Final Submission Suggestion

Include:

- Screenshot of VPC setup
- Screenshot of RDS creation page OR pricing calculator
- PDF of estimate
- Estimated cost in ₹ and $ (if required)
- Explanation of choices (VPC CIDR, DB instance, edition, etc.)

Would you like a **PDF letterhead template** you can paste your exported estimate into for your experiment submission?