**Week 15**

**Name:**

**Mobile:**

| **Personal Development Workouts** |
| --- |
| 1. Finish the next half of the book **“Rejection Proof”** by **Jia Jiang** by the end of this week. |
| *Write a short description about this task*  *Link to the folder containing your audio summary* |

| **Technical Workouts** |
| --- |
| 1. Learn the concepts in Structured Query Language & Relational Database. 2. Learn the types of queries    1. SELECT, SELECT LIMIT, SELECT TOP, INSERT, UPDATE, DELETE, TRUNCATE TABLE, UNION, UNION ALL, INTERSECT, MINUS, EXCEPT 3. Learn the concept of Comparison Operators & Logical Operators 4. JOIN 5. Aliases 6. Learn the concepts of Clauses    1. DISTINCT, FROM, WHERE, ORDER BY, GROUP BY, HAVING 7. Learn the concept of Functions    1. COUNT, SUM, MIN, MAX, AVG 8. Learn the following conditional operators    1. AND, OR, AND&OR, LIKE, IN, NOT, IS NULL, IS NOT NULL, BETWEEN, EXISTS 9. Learn the following concepts in Tables & Views    1. CREATE TABLE, CREATE TABLE AS, ALTER TABLE, DROP TABLE, GLOBAL TEMP, LOCAL TEMP, SQL VIEW. 10. Learn the concepts in Keys, constraints & indexes     1. Primary keys, Indexes 11. Learn the concepts of data types.   3. Complete all the assignments given in the below document.  [Week 15: SQL Assignments](https://docs.google.com/document/d/1nVdWeBtyWasAUDJWAgzcrCaXO4X6WMJlMR3Ugq4rQ6k/edit#heading=h.gjdgxs) |
| *Write a short description about this task* |
| *Link to your presentation video about the covered topics* |

| **Data Structure Workouts** |
| --- |
| 1. Learn the concept of Stack & Queue. Complete at least three sample workouts in each of them.    1. PUSH, POP and Display elements in Stack    2. Enqueue, Dequeue and Display elements in Queue 2. Learn about Linear Search & Binary Search. Complete at least 3 sample workouts in each of them 3. Do at least 3 problems each for every structure from any competitive coding websites (Hacker Rank, Code Chef, Leet code, Algo Expert, etc. ) |
| *Write a short description about this task*  *Link to the folder containing code and screenshot of the output* |
| *Write a short description about this task*  *Link to the folder containing code and screenshot of the output* |
| *Write a short description about this task*  *Link to the screenshots of completed problems in competitive coding websites* |

| **Miscellaneous Workouts** |
| --- |
| 1. Practice typing for at least one hour each day. Finish as many chapters as possible as you can. Don’t spend more than an hour each day. 2. Prepare a topic for the tech seminar. Record and upload it on youtube as an unlisted video. 3. Conduct a Feedback session by the end of this week. 4. Prepare your progress video for the last week. Record and upload it on youtube as an unlisted video. |
| *Write a short description about this task*  *Link to screenshot image* |
| *Write a short description about this task*  *Link to your seminar video* |
| *Link to the document containing notes for your feedback session* |