I Have Sunday Full Backup, Monday Incremental Backup and I’m Taking Archive log Backup for Every 30min. Tuesday Morning Database Incremental Backup Is Completed At 9am.Then Database Is Crashed At 12:30pm. So Now How to Restore the Database Until Time In 19c Oracle   
  
To restore the database to **12:30 PM on Tuesday** in Oracle 19c, you will follow these steps:

**1. Restore the Sunday Full Backup**

* The **Sunday full backup** is your base backup. Start by restoring this full backup to the recovery location.

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* The **Sunday full backup** is your base backup. Start by restoring this full backup to the recovery location.

**2. Apply the Monday Incremental Backup**

* Since the **Monday incremental backup** was taken, you need to apply this incremental backup to the database to bring it up to Monday's state.

bash

# Apply Monday Incremental Backup

rman target /

restore database from backup;

recover database;

This step applies the changes (redo logs) from the incremental backup taken on Monday.

**3. Apply Archivelog Backups Up to 12:30 PM Tuesday**

* After restoring the Sunday full backup and Monday incremental backup, you need to apply the archived logs from **Monday 9 AM to Tuesday 12:30 PM**. Since you are taking **archivelog backups every 30 minutes**, you should have the archived logs available for recovery.

You can apply the logs either using RMAN or manually by restoring the archive logs.

# Apply archive logs

rman target /

recover database until time 'YYYY-MM-DD HH24:MI:SS' using backup controlfile;

In your case, you will specify the time as **12:30 PM on Tuesday**.

For example:

recover database until time '2024-12-10 12:30:00' using backup controlfile;

This command applies all the archive logs up to **12:30 PM** on Tuesday.

**4. Open the Database**

After applying the incremental backup and archive logs, you can open the database:

# Open the database

alter database open resetlogs;

This completes the recovery, and your database will be restored to the state it was in at **12:30 PM on Tuesday**.

**Summary of Steps:**

1. **Restore Sunday Full Backup**.
2. **Apply Monday Incremental Backup**.
3. **Apply Archive Logs** up to **12:30 PM Tuesday**.
4. **Open the database** with RESETLOGS.

Ensure you have all the necessary archive logs and backups available to complete this recovery successfully.

**You said:**

here how to mention sunday full backup and monday incremental backup

**ChatGPT said:**

ChatGPT

To restore the database from the Sunday full backup and Monday incremental backup, along with applying the archived logs to reach the desired point in time (12:30 PM Tuesday), you need to use **RMAN**. Here is a step-by-step guide on how to specify the Sunday full backup, Monday incremental backup, and how to apply the archive logs correctly:

**Step-by-Step RMAN Recovery Process**

**1. Start RMAN and Connect to Target Database**

Open RMAN and connect to the target database. If you are restoring from backups and applying incremental backups, ensure you have access to both the full backup and the incremental backup.

rman target /

**2. Restore the Sunday Full Backup**

Assume you have a full backup from Sunday stored in a specific backup location (e.g., /backup/full\_backup\_sunday.bkp). You'll restore the full backup first.

# Restore the Sunday full backup

restore database from backup;

This restores the Sunday **full backup**. RMAN will automatically locate the backup set and restore the necessary files.

If you want to specify the exact backup set or location, you can use:

# Restore specific backup set (example)

restore database from '/backup/full\_backup\_sunday.bkp';

**3. Apply the Monday Incremental Backup**

Once the Sunday full backup is restored, apply the Monday incremental backup. Since the Monday incremental backup is a "differential" backup, it will contain all changes made after the Sunday backup.

The incremental backup should have been taken using the **LEVEL 1** option in RMAN (this is usually how incremental backups are taken).

# Apply Monday's incremental backup

restore database from backup;

Alternatively, if you know the location of the incremental backup, you can specify it as well:

# Restore a specific incremental backup (example for Monday)

restore database from '/backup/incremental\_monday.bkp';

This step applies the Monday **incremental backup**.

**4. Apply Archive Logs Up to 12:30 PM Tuesday**

Once you have restored the full backup and applied the incremental backup, the next step is to apply all the **archive logs** up until **12:30 PM Tuesday**.

1. **Use RMAN** to apply the archived logs. Since you want to restore the database to a **specific time**, you will use the until time option with RMAN's recover command.

First, identify the **exact time** when the database crashed (12:30 PM Tuesday). You will need to apply the archive logs up to that time.

# Recover the database to the point in time 12:30 PM on Tuesday

recover database until time '2024-12-10 12:30:00';

RMAN will automatically apply the archived redo logs up to the specified point in time (12:30 PM on Tuesday). Ensure that your archive logs are available and in the correct directory, as RMAN will use them during the recovery process.

If your archive logs are in a specific directory, you can manually specify the location of the archive logs:

# Manually apply archive logs if needed

recover database until time '2024-12-10 12:30:00' using backup controlfile;

**5. Open the Database with RESETLOGS**

Once recovery is completed, RMAN will ask if you want to open the database. Since this is a point-in-time recovery, you will need to open the database using RESETLOGS.

# Open the database

alter database open resetlogs;

The RESETLOGS option is required after a point-in-time recovery to reset the log sequence and create new online redo logs.

**Complete Example in RMAN:**

rman target /

# Step 1: Restore Sunday Full Backup

restore database from backup;

# Step 2: Apply Monday Incremental Backup

restore database from backup;

# Step 3: Apply Archive Logs up to 12:30 PM Tuesday

recover database until time '2024-12-10 12:30:00';

# Step 4: Open the database with RESETLOGS

alter database open resetlogs;

**Summary of Steps:**

1. **Restore the Sunday Full Backup**.
2. **Apply the Monday Incremental Backup**.
3. **Apply Archive Logs** up to **12:30 PM Tuesday** using the recover database until time command.
4. **Open the database with RESETLOGS** to complete the recovery.

**Key Points to Note:**

* Ensure that all **archive logs** between **Monday's incremental backup** and **Tuesday 12:30 PM** are available.
* The **RESETLOGS** operation will create new redo logs after a point-in-time recovery and will **invalidate** any prior backup, so be cautious when using this in a production environment.

Let me know if you need further clarification!

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