**Mahesh**

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**Summary**

**Over 9+ years** of professional experience as an **Oracle Database Administrator having hands on** experiencein **database administration production support, installation, configuration, upgrades, patches, performance tuning, backup and recovery, database security, cloning, migration, shell scripting and documentation, setting up and configuring Data-guard, replications using golden gate** inhigh-availability environments.

* Providing DBA support to **multiple Cluster, Non-cluster and ASM** Database in production, development and Testing Servers on UNIX, Linux and Solaris Environments.
* Handful of experience in Oracle **Installations, Upgrades, Patches, Critical Patch Updates** (CPU) in various environment ranging from 9i/10g/11g/12c.
* Excellent experience in **Installation, administration and troubleshooting of Oracle 12c/11g/10g/9i for OLTP** (multiple instances)/ OLAP environment on Very Large or Highly Transactional Databases.
* Having Hands on experience working in **both Application and Production support environment.**
* Expertise in **setup, installation, configuration, maintenance and troubleshooting** of several Oracle tools and utilities like **Oracle Enterprise Manager (OEM), TOAD, Oracle SQL Developer** in various versions.
* Having good experience in **configuring OEM 12C cloud control and monitoring databases using OEM 10g/11g/12c.**
* Configuration and Management of **Data Guard 10g/11g on RHEL, OEL and Sun-Solaris** for Disaster Recovery.
* Expertise in **setup/implementation/maintenance of Real-Application-Cluster (RAC)** of 2/3 Node RAC on 10g/11g/12c.
* **Installed** and **maintained Oracle 12c/11g/10g RAC with ASM & OCFS2** File systems.
* Experience of **Oracle Golden Gate installation, configuration and troubleshooting Golden Gate Extract** and **Replicate** issues.
* Performed **Upgradation of databases from lower version (9i/10g) to higher version (11g).**
* Implemented **RMAN Backup and Recovery**, Incomplete Recovery and **disaster recovery** **using Data Guard.**
* Have good experience in **migrating data from Solaris, HP-Unix to Linux.**
* Worked on **disaster recovery, Database backup concepts** and options such as **user-managed backup, RMAN-managed backup** with or without catalog, **operating system backup, cold and hot backup, full backup, incremental, cumulative backup** and implementing backup and recovery strategies.
* System administration, **Oracle Problem analysis & resolution and active cloning of databases between servers.**
* Testing and implementing **different physical (hot/cold), logical backup and recovery methods including point in time, media recovery, full/partial, and data pump export/import.**
* Knowledge of **various storage solutions (SAN, NAS).**
* Database refresh from production to **QA, development and testing environments.**
* Detecting and diagnosing production system performance problem by **analyzing STATSPACK reports, Oracle trace and log files, AWR, ADDM, analyzing SQL statements,** measuring system and database activity, Querying Oracle dynamic performance views.
* **Developed both database and OS-level security policies** for data protection and having good experience in Working with **Oracle security, Transparent Data Encryption, Oracle Wallet Management and Oracle Identity management.**
* Experience in **SQL Tuning, SQL Optimization, cost based optimization and Hints.**
* **Set and tune** **System Parameters for MongoDB.**
* **Optimizing MongoDB CRUD Operations.**
* **Add / remove replica** and shard nodes in MongoDB Cluster as needed.
* Setting up **MongoDB Profiling** to get slow queries.
* Proficient in raising TAR with Oracle Support and using Meta-link to resolve the bottlenecks in the database environments.
* Extensively used BMC Remedy, Pac 2000 ticketing systems.
* Worked proactively and gave **24/7 on-call production support and Weekend support** for maintenance and server level patching.
* Good **analytical and problem solving skills with ability to work independently and in a team environment.**

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Operating Systems** | **Red Hat Linux RHEL 3.x, 4.x, 5.x, 6.x, HP-UX 10.x, 11.x,**  **Sun Solaris 9.0/10.0, AIX 5.1, 5.2** |
| **Data Bases** | **Oracle 12c/11g/10g/9i, Oracle 12c, 11g/10g Real Application Cluster (RAC),**  **ASM, MySQL, SQL SERVER 2008/2012, Mongo DB** |
| **Languages** | **SQL, PL/SQL, UNIX Shell Scripting** |
| **Tools/**  **Utilities** | **RAC, OEM Grid Control, SQL\* Loader, ASM, SQL Server, Export/Import,**  **RMAN, NETCA, DBCA, TOAD, Exadata, Patch Management, SQLNET,**  **ODBC, Export/Import, Data pump, Data-Guard, Erwin, OEL, Log-miner,**  **MS Visio, VERITAS Net Backup, BMC remedy, Pac 2000, VMware, Crontab,** |
| **Tuning Tools** | **TKPROF, EXPLAIN PLAN, STATSPACK, ADDM, AWR** |
| **Terminal Emulation** | **Putty, Telnet, FTP, TOAD** |

**Professional experience**

**Client: Goldman Sachs, Salt Lake City,UT Jan 2017 - Present**

**Sr.Oracle DBA**

**Responsibilities**

* Performed installation and maintenance of **Oracle 11g** and **12c** two node RAC with Physical Standby on RHEL 7.3 with **Dataguard Broker.**
* Administered/monitored over **1500 databases** on **10g/11g/12c** on **prod/test/dev** environments with database sizes ranging **5GB to 30TB**.
* Worked on **Data Guard Broker** configuration for 2 node RAC with Physical Standby Environment and performed Switchover operations using **DG Broker**.
* Upgradation/Migration of databases to 12c from 10g/11g including 2-node RAC with standby Database and Standalone databases.
* Utilized raccheck utility to diagnose **CRS, ASM and RAC** database setup issues.
* Created and maintained physical, logical and snapshot standby databases for **disaster recovery**, near real-time reporting, load-testing and **production database backup**.
* Initiated media **recovery, Instance** and **crash recovery** using **RMAN** and performed database point-in-time recovery and TSPIT recovery during scenarios like loss of RLF, system/non-system DBF, **Control file, table drop and whole DB Crash.**
* Experience in Setup and Build AWS infrastructure various resources EC2, S3, RDS, IAM, EBS, Auto Scaling and Cloud formation templates.
* Configuration and administration of full rack **Exadata databases**.
* Provide and implement performance tuning recommendations of all components in **Exadata database** machine.
* Monitored **DR (Data Guard)** implementations regarding connectivity issues and "log shipping" to failover site.
* Worked on resolving **Archival GAP** in **Data Guard Environment** and **DG sync Issues**.
* Implemented **Disaster Recovery database 10g/11g Data Guard** on physical standby database in maximum performance mode using **LGWR ASYNC** mode.
* Prepared **Root-Cause Analysis(RCA)** Report for Failover and Switchover issues and worked on issues related to **Automatic Switchover**.
* **Restore and Refresh of database/schema’s** using **RMAN** and **Data pump utilities**.
* Extensively used data pump for data migration at table, schema and database level.
* Weekly Data Refresh from Production to Development and Test environments using **data pump export/import**.
* Generate and interpret **Automatic Workload Repository (AWR)**, **Active Session History(ASH)** and **Automatic Database Diagnostic Monitor (ADDM)** reports.
* Installation and Configuring Extract and Replicate pumps for **Golden Gate** replication **11g/12c** and Troubleshooting issues in **Golden Gate Environment**.
* Configuration and building heartbeat monitoring in **Oracle Goldengate**. Develop flexible home-cooked Korn scripts to monitor the **Goldengate** lags.
* Configure error handling for **Oracle Goldengate restart**, logging, **production support** and **status reporting**.
* Upgrading **Goldengate from 11g to 12c** and Expertise on **Oracle Goldengate** and troubleshoot the issues related to GoldenGate independently.
* Created ASM volumes using asmca and Created ACFS for Golden Gate v12.
* **Performance Tuning**, Capacity Planning, **database cloning**, and patch management.
* Used **Log Dump Utility** to Investigate data on the trail and defgen to create definition files used for replication.
* Created scripts and scheduled backups in **Autosys for RMAN database backups** and **recoveries** and **Cloned** databases using **RMAN** Utility.
* Registering database in **recovery catalog for backups** and resolving issues related to **scheduled backups**.
* Taking incremental, cumulative backups using **RMAN** and **scheduling database** backups using **Crontab**.
* Administering **Databases** using **OEM 11g/12c**.
* Data masking sensitive data in production databases using **OEM 12c** and **Scheduled Oracle Jobs** using **DBMS\_SCHEDULER** and enabled oracle vault features from **OEM**.
* Unix **Shell scripting** in csh, ksh for automating **startup/shutdown**, **backup and recovery**, **Import and export** procedure of databases, getting system alerts.
* Monitoring **Day-to- Day Backups**, Log’s and recovering them as per the requirement.
* Implemented **Flashback Technology**, Table, **Drop and Database** to undo specific transactions, recovered database objects and flashback entire database to a desired time.
* Configured Oracle Advanced Security to implement Transparent Data Encryption at table space, table and column levels. Also configured Redaction using OEM’s Policy expression builder.
* Worked with Oracle Support Mechanisms like My Oracle Support (Metal ink) and Raising Service Requests.

**Environment: 12c/11g/10g, RHEL 5/6/7, OEM, RMAN, Grid, Data guard, EBS, ACFS, RAC, ASM, Golden Gate, TOAD, SQL\*LOADER, Performance Tuning, Exports/Imports**

**Client: Fidelity Investments, Nashua, NH Jan 2016 - Dec 2016**

**Sr.Oracle DBA**

**Responsibilities**

* Installed, configured and maintained **Oracle 11GR2/12C Real Application Cluster (RAC)** databases including a **3 Node RAC.**
* Involved in Availability testing of several Production databases before going Live which involved Node level failover testing, Listener/Scan level failover testing and database failover testing.
* Performed health checks of **Real Application Cluster** instances using **Crsctl and Srvctl** utility and troubleshooting **RAC** using clusterware logs
* Converted single Instance Databases to RAC databases Manually and expertise in troubleshooting RAC issues, very strong in using **ocrconfig** to backup OCR and Voting files
* Performed **SAN** migration with minimal down time, creating disk groups with different redundancy levels, creating **ACFS** on **ASM** using **asmca**.
* Monitoring and managing of Oracle instances using **Enterprise Manager Grid Control (OEM grid) 11g /12c.**
* Implemented **Disaster recovery** for production databases using **Data guard** and creating physical standby databases, and involved in converting physical to snapshot standby, and also **Active Data-guard**.
* Converted physical standby to Snapshot standby and back to physical standby as per business requirement
* Setup physical standby's **(Dataguard)** for several Databases and configured **Data** **Guard broker** between the primary and standby databases.
* Configuration of workflow setup for EBS R12 and resolving the issues.
* Perform Switchover/Failover and monitor the **Data guard** status via command line
* Proficiency with Installation and maintenance of replication tool **Goldengate** by creating extract process, **extract pump,** and replicate.
* Upgrading **GoldenGate** from **v11 to 12c** and **Expertise on Oracle Golden Gate** and be able to configure **Golden Gate**
* Used **Logdump** utility, **Defgen** utility in **GoldenGate** environment and Installed **Goldengate** in dev, test, prod environment
* Configured **Database File System (DBFS)** on **EXADATA.**
* Migrated **NON-ASM** databases to **ASM** on **EXADATA.**
* Involved in moving databases in **EXADATA RAC** environment.
* Worked on databases on **EXADATA** various compression methodologies including **OLTP** compression, **HCC, EXADATA** Query specific.
* Involved in configuring **Exadata X2-2, X2-8** and have a good knowledge on smart flash cache, storage index, storage management and migration. Troubleshooting **Exadata smartscan/offloading issues**
* Setup dev, test, UAT and Prod environments on RHEL/HP Unix database machines.
* Resolved ODI related issues faced by the team members.
* Provided significant enhancements and bug fixes to **OIM 11g** environment
* Provided in depth training on **Oracle Identity Manager 11g** deployment, configuration, and custom connector development
* Provided ongoing support and enhancements to existing **OIM 11g** environment
* Assisted in deployment of software environments, integration connectors, and customizations
* Problem diagnosis and Performance tuning by implementing Partitioning, Parallelism and Compression.
* Setting up Hugepages - Calculated the recommended values and setup hugepages on Linux severs.
* Performed Database and SQL tuning by using various Tools like **AWR** reports, **SQL Tuning Advisor, ADDM, Real Time ADDM,** Database Replay and EXPLAIN PLAN analysis for query optimization.
* Installed **12c** pluggable databases and upgraded from **11g to 12c** and managed fusion middle ware products
* Performed stopping and starting web logic server when ever required and Worked with Fusion middleware team in tuning oracle database parameters, tested and deployed in production
* Provided backup/Restore; Recover of the databases using **RMAN** and **FLASHBACK** database procedures.
* Upgrade the binaries by applying patch set and interim patches using **OPatch** and **OPatch Auto.**
* Creation of new PL/SQL procedures and triggers based on the project requirement and **UNIX shell scripting** as and when required based on the requirement.
* Implemented backup strategies using hot/cold, **Expdp/Impdp** used on the business requirement.
* Backup and recovery procedures using RMAN. Created scripts for **RMAN** incremental backups and also for full database backups using **Data pump.**
* Successfully migrated databases from Unix running **oracle11g** over to Linuxboxes12c.
* **UNIX shell scripting** as and when required based on the requirement.
* **Unix Shell scripting** in csh, ksh for automating startup/shutdown, backup and recovery, Import and export procedure of databases, getting system alerts.
* Worked on Performance Tuning guidelines SQL and JDBC performance tuning, application tuning methodologies, determining instance and I/O efficiency, and using tools like TKPROF.
* Providing technical support to Application Support team for performance and database related issues.
* Downsizing and defragmenting the Very Large Databases by **export / import**, cloning those using RMAN duplicate features and then upgrading them to **Oracle 12c** and Production to development refresh.
* Resolved TAR issues 24x7 while assisting the functional team and oracle support (Metal ink).
* 24x7 Production database administrations, support and monitoring to ensure a proactive problem recognition and resolution of database issues.

**Environment: Red Hat Linux5.x, Aix 6.1, Oracle 12C, 11gr2 Enterprise Manager GRID, RMAN, SAN/NAS, ASM, RAC, Golden Gate, Exadata , Streams, Opatch CDC, EBS, Data Guard, SQL\*Plus, PL/SQL, ASM, ToadV11.x & SQL, Navigator V6.1.**

**Client: Novartis, Fort Worth, TX June 2014 – Dec 2015**

**Senior Oracle DBA.**

**Responsibilities:**

* Installation and use of **High Availability** and **Disaster Recovery** components; Oracle **GRID** **Infrastructure / Clusterware,** **Oracle 12c two node RAC** for the database tier.
* Planning and implementing **Disaster Recovery & High availability** solutions using **Oracle 11g /12c** standby database using **Data guard.**
* Configured **Data Guard Broker** and used for switchover and stopping and Starting Media recovery process.
* Created **ASM volumes using asmca** and Created **ACFS for GoldenGate v12.**
* Installed **GoldenGate on 12c RAC ACFS** Configured Integrated Extract and Replicat on Multitenant database 12.1.0.2.
* Performed **Cross platform migration** and used **Oracle GoldenGate to migrate** database from IBM-AIX 6.1 to OEL 6.1.
* Configured **Extract** and **Replicate** pumps for **GoldenGate replication 11g/12c** and Troubleshooting issues in **GoldenGate** Environment.
* Used Logdump Utility to Investigate data on the trail and **defgen to create definition files** used for replication.
* The data transfer is primarily invocation of SOA Framework. The BPEL process uses Oracle Applications Adapter for EBS to integrate TOPS and Oracle.
* Performed **Zero-Down Time migration** from Hp-Unix to Oracle Enterprise Linux using **Expdp and GoldenGate.**
* Ongoing proactive **database-level performance tuning,** with a good working knowledge of Oracle internals.
* Used **OEM 11g/12c** and **Administering Oracle Database 10g, 11g and 12c** databases and masking sensitive data in production databases.
* Experience in creating **physical** and **logical database design** Data Models using **Erwin Tool.**
* Generation of **DDL scripts using Erwin Tools.**
* Patching & upgrades on Oracle 12c database (whilst minimizing or eliminating the impact to live services, i.e. using rolling node patching).
* Upgraded databases from **11.2.0.4 to 12c in QA** and **Prod environments.**
* Working with **logical backup using Data pump and Exports/Imports** utility.
* Performed database refresh using **Data pump** utility.
* Database Load and Transformation Techniques **(SQL Loader).**
* Created scripts and scheduled backups in **Autosys for RMAN database backups** and recoveries and Cloned databases using **RMAN** utility.
* Installation and use of Oracle ASM (as well as traditional file system storage).
* **Monitored DR (Data Guard)** implementations regarding **connectivity issues and "log shipping" to failover site.**
* **Creation of Users** and granting them the required **Roles and Privileges** accordingly.
* Responsible for all database activities such as **User management, space management, database security management,** rollback segments & creation of DB links between oracle servers.
* Installed and configured **Oracle** **12c WebLogic server and Oracle 12c HTTP servers** for the application tier and web tier.

**Environment: Oracle 12c, RHEL 5/6, OEM, RMAN, Grid, Dataguard, EBS, ACFS, RAC, ASM, GoldenGate, TOAD,SQL\*LOADER, Performance Tuning, Data pumps, Exports/Imports.**

**Client: Wells Fargo, Charlotte, NC May 2012 – May 2014**

**Senior Oracle DBA**

**Responsibilities**

* Worked on 2-node to 5-node **RAC** databases from 50GB-20TB on both HP-UX and Linux.
* Worked on Database creation from scratch with **UNIX** Team.
* **Installed/Patched** and maintained **Oracle** database
* Configuring, maintaining **Dataguard** setup.
* Upgrading the database to version **11g from 10g** **and 9i** on **RHEL 5.8.**
* Restoring the databases.
* Migrating the databases from **Solaris to Linux** using **data pump** option.
* Installed and configured all systems with 11G **Oracle Grid** control monitoring
* Transport transactional data between servers by creating database links and exporting source to target database 11g.
* Backed up and Recovered of the **Oracle Database and Archive logs** using **RMAN**; configure and restart backups or restored if needed.
* Taking hot and cold backups of the database using **RMAN.**
* Handling refresh from production to Test environments.
* Implemented data guard to provide high availability of database for many applications.
* Supported databases for 24/7 production support.

**Environment: SUN Solaris, AIX, RHEL, Oracle 10g, 11g, 12c, RAC, Standby, RMAN, ASM,OLTP,Oracle Enterprise Manager (OEM), TOAD, Putty.**

**Client: Renaissance Venture Capital Fund, Ann Arbor, MI July 2011 – April 2012**

**Senior Oracle DBA**

**Responsibilities:**

* Worked on maintenance of **Oracle 10g/11g RAC** databases on Linux and Configured **2 Node RAC** on Grid Infrastructure.
* Administered and monitored over **120 databases** both on 10g/11g on prod/test/dev environments.
* Administering Oracle Databases **10g/11g** of sizes ranging from **100GB to 10TB.**
* Migrated databases from **File-system** to **Automatic Storage Management (ASM).**
* Involved in migrating applications from **Solaris 10g/11g to Linux 11.2.0.3 using Transportable Tablespace, RMAN Convert.**
* **Up-gradation of single instance** databases from 11.2.0.1 to 11.2.0.3 on Linux.
* Responsible for using **Flashback query mechanism** along with automatic undo management.
* Experience in Creating Physical and logical database design Data Models using ER Studio.
* Installed **12C grid control** and **Used** **Oracle Enterprise Manager Grid control 11g/**12c for monitoring databases.
* Involved in Mass Agent Deployment using **Oracle Enterprise Manager 12c.**
* Implemented **Data Guard with maximum availability and performance** configurations for production databases.
* Worked on **Active data guard, Fail over and Switch over cases.**
* Hands on Experience in **SQL Tuning** and **SQL Optimization.**
* Created **Oracle Tables, Table Partitions, Views, and Materialized Views.**
* Worked on database security, Transparent Data Encryption, Created tables with Encrypted Columns and Managed Encryption Keys
* Implemented the **TDE column encryption** to encrypt sensitive data stored in Tables for **Security Remediation.**
* Configured **Oracle Wallet for Encryption functions and involved in setting up Transparent Data Encryption for protecting sensitive data** in the database.
* Creation of **Users** and granting them the required **Roles and Privileges** accordingly
* **Cloned schemas, objects and data** on new server using **Data pump** utility
* Decreased Contention by reducing the **Wait Events** as a part of **Performance Tuning**
* Implemented **Backup and Recovery** Strategies **using RMAN** and used **Recovery advisor** to repair **data block corruptions** & data dictionary corruptions
* Generate and interpret **Automatic Workload Repository (AWR), Active Session History (ASH)** and **Automatic Database Diagnostic Monitor (ADDM)** reports.
* Responsible for all database activities such as **User management, space management,** **databasesecurity management, rollback segments** & creation of **DB** links between oracle servers
* Ability to work effectively and can liaise as a part of team monitoring proactively
* Involved in 24x7 production database maintenance and on-call support.

**Environment: Oracle 10g, 11g, RHEL 5/6, SOLARIS, IBM AIX, OEM, RMAN, Grid, RAC, ASM, Data-guard, Golden Gate, TOAD, TDE, SQL\*LOADER, Performance Tuning, AWR, ADDM, ASH, Data pumps, Exports/Imports.**

**Client: Bremer Bank, Eau Claire, WI Jan 2010 – June 2011**

**Senior Oracle DBA**

**Responsibilities:**

* Involved with installation and maintenance of **Oracle 3 node RAC** for high availability.
* Involved in change control process and Upgraded the **Oracle 10g** database to **11g version** and also applied

**patch set and interim patches** whenever required to make the database software up to date.

* Worked extensively onmonitoring **10g/11g Grid Control** and **Configuration of error notifications, installing**

**listeners, and adding them to the grid control.**

* Involved in **Migrating applications** fromsingle instance databases to **Exadata.**
* **Maintained 10g/11g RAC** environment and troubleshooting issues.
* Responsible for **implementing Load Balancing** **in RAC** Database.
* Performed health checks in **RAC instances using Crsctl and Srvctl utility.**
* Having good experience in Migrating **Single Instance database to RAC Environment.**
* Performed Capacity Planning, Undo segments and Health check reviews in **RAC.**
* Monitoring Day-to-Day Backups, Log’s & recovering them as per the requirement.
* Scheduling the databases backup using **Crontab and VERITAS net backup.**
* Involvement in **space management, rectification of lock problems**, managed quotas.
* Performed Migration of databases **10g on Hp - Unix** to Oracle **11gR2 on Linux.**
* Involved in configuration of parameter files for extract process in primary and replica process in standby

using **Golden Gate.**

* Installed **Golden Gate** for replication of **database on 11gR2 RAC** environment.
* Experience in **Creating** **Physical Design Data Models using Erwin Tool.**
* Generation of **DDL scripts** using **Erwin Tools.**
* Created, monitoring database objects like Indexes, Views, Users, and DB Links.
* Wrote scripts for database maintenance activities such as monitoring the growth rate of table spaces and

extents. Also wrote **UNIX** scripts to **process batch jobs.**

* **Monitored queries** with **high response** **time** **and high disk read per execution (Top SQLs)** and tuning the

same using **Explain Plan, TKPROF** and **SQL tuning advisor.**

* Extensively used features such as **Data Pump, Flash Back Recovery, ASM, AWR, ADDM** for Generating

reports.

* Created **Partition’s estimated stats on one partition1** and copied the stats to remaining partitions using

dbms\_stats.

* Worked with **DW team on problem resolution and implemented** change requests. – Performance tuning

on **DW such as Data extraction** from production to **Data warehouse.**

* Install, maintain and monitor Web Logic server as part of **OEM Grid Control** setup.
* Involved in 24x7 production database maintenance and on-call support.
* Conducted time-to-time analysis and monitoring of the software and hardware requirements and act

accordingly.

**Environment: Oracle 10g/11g, RAC on Sun Solaris, Linux, RMAN, Data Guard, Golden-Gate, Toad, Exadata, OEM, ASM**

**Client: BCBS, Pheonix, AZ AUG 2008 – Dec 2009**

**Oracle DBA**

**Responsibilities:**

* Worked under Sr. DBA to perform **Oracle software installations.**
* Served as key person in charge of ensuring full functionality of all **Oracle databases** and **EBS instances.**
* Installed **patches,** performed database version upgrades with the Sr.DBA support.
* Creating user accounts and appropriate privileges as well as maintaining **Database security.**
* Enabled the Database in **Archive Log Mode / No archive log mode**.
* Modifying the database structure, as necessary, to support activities of application developers
* Created Database storage structures **Data Tablespace, Index Tablespace.**
* Upgrade, patching Oracle databases.
* Worked on LDAP servers to reduce security issues and data Inconsistencies.
* Experience in performing system backups and restoration using **PL/SQL scripting.**
* Involved in doing Hot, Cold backup with and without **RMAN.**
* Backups using **export and import** of schemas.
* Used **Stats pack** for troubleshooting SQL query performance issues.
* Creation of development and test databases using **export/import** of full database.
* Managing user, resources and privileges.

**Environment**: **Oracle 9i/10g, PL/SQL, SQL Loader, TOAD, OEM, Linux, RMAN, Data Guard, ASM**.