

# Chris Durgasingh

## Senior Exadata Specialist - Exadatabase, LLC

Apex, NC - Email me on Indeed: [indeed.com/r/Chris-Durgasingh/f2fcdc1c0db6bd4d](https://www.indeed.com/r/Chris-Durgasingh/f2fcdc1c0db6bd4d)

A seasoned professional with over twenty years of industry experience. Throughout my career, I have worked extensively with traditional Oracle and Exadata, Sybase and SQL Server on UNIX and Windows platforms respectively. My skills include Staff Management, Database Administration, development and modeling using Erwin.

In a management capacity, I have interviewed and written employee evaluations, hired and terminated staff, procured hardware and software within budget constraints. I have focused on Exadata technologies for over six years.

Authorized to work in the US for any employer

### WORK EXPERIENCE

#### Senior Exadata Specialist

Exadatabase, LLC - January 2016 to Present

- Responsible for the successful migration of over 60 T/byte of Teradata dB content to Oracle 12c
- Collaborate with Data Architect to port the logical and physical Teradata dB model to Oracle
- Consolidated five Teradata dBs into respective schemae in Oracle
- Create and test several test cases for Interval and Manual table partitioning
- Architect the solution to incorporate Partition Exchange functionality to improve load and transformation time minimizing disruptions during reporting window of time
- Conduct several JAR sessions with Informatica and Tableau developers to determine the changes in functionality
- Perform in-depth data analysis of Teradata database content to determine key (pk,fk, sur) relationships amongst tables for Oracle partitioning purposes
- Wrote a Java program to migrate Teradata dB content to Oracle - DbaaS
- Conduct several training sessions on Exadata, partitioning, HCC, configuration, security and tuning technologies to internal staff

#### Core member of the DBaaS, PaaS, Cloud and Database migration teams

UBS - October 2015 to December 2016

Sole owner of the dB Automation Migration Program, dB Autoplacement and Reservation System and Manual Placement programs with full responsibility for production release delivery, DBA usage and support

- Developed software solution with Engineers to automate the dB migration process with full integration of HP SA/DMA toolset, EMCLI, OEM and OEM Deployment Procedures (dp)
- Performed in-depth analysis on legacy dBs considering dB size, version, bugs, patches, DR and Golden Gate requirements and much more to hone migration functionality
- As Catalog Owner, developed numerous test cases, conducted large scale testing of the automation functionality, reviewing test results and formal sign-off for production usage
- Production usage of dB Automation Migration increased weekly legacy migrations from 30 to ~400; Approximately 14,000 candidate dBs to be migrated.
- DBaaS Farm includes Exadata and Oracle Database Appliances (ODA) spanning Europe, Mexico and the Americas

- Performed HHC compression on 67/100 T/Byte dB with a reduction to 17 T/bytes
- Wrote and executed shell scripts to reclaim over-allocated dB resources (SGA/PGA/CPU\_COUNT) on DBaaS appliances
- Investigated, recovered and resolved block corruption on a 28 T/Byte dB
- Managed global dB migrations, approved migrations, assigned global DBA resources and liaise with Global Application Team for dry-runs and cutovers
- Wrote and maintained documentation and trained Global DBAs in dB Automation Migration
- Perform knowledge transfer on DBaaS concepts, dB migration and storage reservation
- Reported to Senior Management on critical automation deliverables and milestones

### **Enhanced Resource Manager**

Bank Of America/Merrill Lynch - March 2015 to October 2015

03/2015 - 10/2015

- Retained by Senior Management to investigate, document and implement actions to correct deficiencies in the Exadata appliances and improve performance
- Conducted several KT sessions and presentations
- Addressed Partition/Sub-partition issues consistent with rules for local pre-fixed and non-prefixed indexes resulting in enhanced performance
- Tune SQL queries reducing runtime from one hour+ to four minutes with 10M+ rows resultset written and file closed
- Corrected SPM, Parallelism and Statistics frameworks to produce enhanced "evolve" plans
- Enhanced Resource Manager sub-plan configuration to activate and throttle CPU Management
- Enabled flashCacheMode=writeback on cell servers post-patching to allow caching of critical fact and dimension tables to improve performance
- Network/Sqlnet round trip tuning for Cognos and Informatica
- Conduct POC with OCI driver to tune preFetchRow returning 1M+ rows p/sec
- Worked closely with Java Development team to implement preFetchRow solution
- Investigated and corrected Mviews with missing logs including implementation of Query Rewrite functionality
- Investigate ORA4031 Shared\_Pool memory extension errors, high Child Cursor version count and Optimizer\_Mismatch errors. Turned on hidden parameter to disable "durations" in subpools
- Investigated and identified SQL Baselines to be dropped to enable purging of SYSAUX occupants
- Participated in Oracle 12c Database Administration training for Container (CDB) and Pluggable (PDB)databases; Standby database configuration and PDB creation and movement

### **Senior Exadata Specialist**

Exadatabase, LLC - January 2014 to March 2015

- Actively involved in new business development
- Hands-on experience with database and query tuning, attribute settings, interconnect monitoring
- SQL Baseline and SQL Profile administration
- Conducted deep-dive investigative technical audits with producing a formal report of findings, recommendations and corrective actions
- Disk and battery replacements including appliance shutdown and restart
- Physical Standby database deployments
- RMAN Backup and Recovery strategy and process implementations
- Nic bonding verification and diagnosis
- IORM plan and sub-plans creation and deployment
- Extended statistics with histogram generation and deployment

- Query tuning to ensure cell offloading and storage index usage, enabling/disabling visible indexes
- Table partitioning including partition-exchange deployment in Enterprise Data Warehouse
- Reverse Key index analysis to minimize block contention (ins/del) on right leaf distribution

### **Manager - Database Administration**

Bloomin' Brands, Inc - March 2014 to August 2014

- Created and presented a 1,3 and 5 year infrastructure roadmap for Production and DR
- Actively involved with hands-on DBA tasks for Oracle and SQL Server
- Installed, configured and created databases spanning SQLServer2008 through SQLServer2014
- Installed, configured, tested SQLServer2014 "Always On" configuration with dB migration
- Used SQLProfiler to trace and identify long running queries
- Implemented SQLServer backup strategies with dumps to DataDomain
- Implemented maintenance plans for house-keeping tasks, email alerts and dB restores
- Tune data warehouse dB and queries to return SAS multi-million row extracts in seconds
- Data Architect role for Data Archiving for DW, ODS and other critical repositories
- Preparation of a consolidation plan for Oracle and MS SQLServer databases
- Development of a 1,3,5 year IT infrastructure roadmap in anticipation of growth
- In-depth analysis of Oracle licenses to determine renewal options
- Management of the domestic and off-shore DBA groups
- Re-negotiate Off-Shore DBA contract to include weekend support
- Plan and patch activities for Exadata (V2 and X2) appliances
- Grand-fathered V2 Exadata Appliance into the Oracle Premier Support Program
- Contribute to the budget planning process with a 1,3,5 year perspective
- Direct reports review, hiring, termination and other HR related duties
- Conduct Annual Disaster Recovery testing to a remote data center
- Lead the Business Continuity Program for Disaster Recovery
- Perform table-specific recovery using RMAN
- Implement Backup and Recovery to Data Domain for Oracle and SQL Server
- Engage Policy makers to hone Backup & Recovery SLAs and retention metrics
- Engage Tax Group for software and Engineered Systems compliance
- Made the case for an Oracle License Bulk Buy leading to significant cost-savings
- Member of the Big Data Delivery Team evaluating Cloudera as a solution
- Member of the Enterprise Architecture Group; Significant contributor

### **Senior Manager - Global Database Administration/Solutions Architect**

Pharmaceutical Product Development - March 2008 to February 2014

- Performed R&D to determine the viability of consolidating and virtualizing Oracle databases
- Designed and implemented a consolidated solution for Oracle Clinicals from three global sites
- Deployed two full rack V2 Oracle Exadata appliances for the database consolidation program
- Redesigned Operational Data Store (ODS) to use MViews to permeate deltas from Stage to Core
- Worked with Data Architects to implement SOA to define Web Services, transform and move content amongst PPD's repositories using IBM's Datapower XI50 appliances.
- Evaluated Oracle's SOA Suite as an alternative to IBM's appliances
- Evaluated Cloud Computing as an option for moving application and backups to the cloud
- Re-implemented Oracle Siebel (8.1) with new functionality and infrastructure identified from
- planning sessions with IBM, Oracle and CapGemini
- Trained members of the DBA team in Oracle RAC cluster and standby database technologies
- Built PPD's data warehouse (six-node Oracle RAC 11g Cluster), installed and implemented

Oracle OBIEE and worked with IBM consultants to port and implement Siebel's CTMS' model into a STAR schema

- Installed and configured Informatica PowerExchange to ETL deltas from Siebel into the EDW
- Rebuilt LiveLink - Enterprise Content Management database with two Oracle Standby dB sites
- Upgraded and redeployed Phase 1 Clinicals and StarLims solutions on a four-node Oracle 10g RAC Cluster with a standby dB clustered solution
- Upgraded Oracle AERS (Adverse Reporting) from 4.5.3 to 4.6
- Led DBAs and Developers in code-drops and patching for global Oracle Clinical solutions
- Configured, fully tested and documented several Oracle DataGuard/Physical Standby databases in High-Availability mode with switchover/failover using Broker (DGMRGL). The Standby Databases configured were single-instance, traditional and Exadata RAC dBS. Exadata Standby databases created using RMAN full backups registered on the standby server or active primary.
- Executed multiple Disaster Recovery events using Oracle Standby dB switchover/failover
- Participated in the budgetary process for Capitalized Projects
- Consolidated SQLSever 2008 and 2012 databases onto UCS clustered infrastructure
- Implemented Maintenance plans for house-keeping tasks backups, email alerts and other

### **Senior Database Administrator - Infrastructure Engineering**

Intra, Inc - December 2006 to March 2008

- Researched and prepared findings on supported software matrix for RAC without IBM's HACMP
- Configured AIX 5.3 TL6 and GPFS (3.1) for Oracle10g RAC dB (10.2.0.3)
- Installed and patched Oracle binaries, SYSMAN schema and Agent software from 10.2.0.1 to 10.2.0.3 for RAC
- Created OMS dB repository for Grid Control management of the RAC dB and RMAN
- Installed AIX patches; Prepared raw disks (/dev/rhdiskx) for Oracle Cluster Registry (OCR) and Voting Disk files
- Implemented physical standby dB (10.2.0.2) of OLTP dB
- Installed Oracle 10g (10.2.0.1 patched to 10.2.0.2) on AIX for multiple environments
- Migrated Siebel CRM, Sales/marketing dB from 8i to 10g on DEV/QA/Production converting to AL32UTF Unicode
- Migrated Sales/Marketing dB from 8i to 10g on DEV/QA/Production converting to AL32UTF Unicode
- Purged seven years of stale data from OLTP dB shrinking dB size (from/to ~2T- ~800G)
- Created Commercial Reporting data mart in the existing EDW (~2T)
- Architected partition exchange for fast update/replacement of searchable data within portal dB
- Support SqlServer 2000 and SqlServer 2005 dBS
- Configured/deployed MAS500 financial dB with integration of Erequester (Purchase Order) and eTimesheets modules
- Deployed Intra.com website's backend dB and scripted daily restore on passive node
- Led Oracle data warehouse cleanup campaign

### **Senior Database Administrator - Principal Consultant**

Xtivia Technologies, Inc - October 2004 to December 2006

Installed Solaris 10/Oracle10g, prepared storage using format/fdisk/partition, created volumes, created filesystems, users, configured networking with files/dns resolution, created Oracle10g OMS dB, deployed RMAN and configured/implemented backups of ASM dB and implemented Statspack.

- Migrated and developed financial applications from forms6i GUI to Forms10g Web on Oracle 10g/Redhat/ASM and Oracle Application Server

- Responsibilities encompassed growing the client base for Database Administration services, architecture reviews and POC solutions for clients
- Managed business relationships with domestic and European clients to develop long term plans and strategies for system development and deployment
- Performed system audits, hands-on development, review of competitors' technical documents
- Configured and deployed Physical Standby Database on Oracle 9.2.0.4/RedHat.
- Managed client staff and external resources to deliver on-time results
- Hands-on database administration and development on Linux/Oracle 9i, 10G and SQL Server 2K
- Deployed Oracle Master-To-Master replication (international/domestic site)
- Extensive database performance and tuning SQL query tuning

### **Manager - Database Administration**

Organon USA - January 2003 to June 2004

- Managed the DBA Group and Enterprise Database Environment
- Deployed JD Edwards ERP, Siebel, LIMS
- Supported the production data warehouse (~300g) on Oracle 8i; Migrated the database to 9i
- Calculated statistics nightly using the DBMS\_STATS package and 'estimate' percentage value
- No Partitioning Option used, but used parallel degree option on tables
- Created bit mapped-indexes to enhance query performance
- Created Function Based Indexes to ensure index usage in "where" clause queries
- Created datamarts within the data warehouse schema
- Used Erwin to model and document datamarts
- Performed significant SQL analysis, database and server tuning
- Diagnosed bottlenecks in package builds, application processes, network roundtrip lags and the need for object separation in schema
- Supported production Oracle Clinical database
- Migration of production V7 and 8i databases to 9.2.x with attention paid to Unicode conversion
- Prepared Memo-of-Justification (MOJ) for additional hardware and software
- Assisted in budget preparation and new technology evaluation

### **Project Manager/ Senior Database Administrator**

JSI - Software Development Company - October 1995 to January 2003

- Developed an intranet content-management solution for Ingersoll-Rand
- Conducted RAW sessions with development staff and client - Ingersoll-Rand
- Produced a project brief, a design document, hardware architecture design and statement-of works - Ingersoll-Rand
- Managed a group of fifteen developers including a technical architect and a DBA
- Recouped a 30% discount on billing for on-time delivery of a content management system
- Interviewed, hired, terminated and managed staff
- Used MS Project to produce Project Plan, Gant Chart, adjustments of tasks and deliverables
- Performed a system audit at the Bergen Record. Areas of concentration include data-center capabilities, network security, database server configuration, logical and physical database design, performance tuning and analysis of client's backup and recovery strategy
- Led the development group to create a two-terabyte data warehouse at Lucent Technologies
- Created the dev/train/ prod EDW dBS on Oracle 8/EMC/HP-V2250 - Lucent Technologies
- Created all database objects; i.e users, roles, grants, tables ( including partitioned tables) , indexes (including bit-mapped) and constraints for the Star Schema
- Wrote shell scripts to automate and loaded mass data with SqlLoader
- Worked closely with developers to debug and ensure error-free compilation of stored procedures

- and database triggers
- Rebuilt Oracle Parallel Server production Databases at Warner-Lambert's manufacturing sites.
- Engaged WL's Senior Management to review plan and contingencies for re-build effort.
- Installed Oracle 8 on an IBM RS6000 - AIX 4.2 Server for Warner Lambert's data warehouse
- Created the data warehouse database and schema (Fact and Dim tables)
- Fixed point-of-failures in the Pfizer/Dendrite's SalesForce/Oracle production dB server
- Negotiated Sun/EMC solution set to replace failing hardware for Pfizer/Dendrite SF database
- Implemented Backup and Recovery solution Pfizer's SalesForce database
- Procured and implemented hardware and software for re-engineering the Oracle dB/Application solution at Nathan & Lewis Brokerage

### **Manager - Database Administration**

AT&T - Telecommunications Company - July 1993 to September 1995

- Installed and configured several Oracle and Sybase dB environments
- Logical and physical designs of databases and overall support
- Evaluated Oracle's Replication technology as an option for high availability
- Participates in the review of technology for building hypertext applications
- Managed a group of four contractor DBAs.
- Created Oracle databases for online services for use with wireless and wired PDA devices.
- Read/critiqued technical documents, recommended enhancements and functionality
- Evaluated third party technology and managed vendor relations

### **Manager- Integration and Special Projects**

AT&T - Telecommunications Company - August 1990 to July 1993

- Procured acceptance/signoff by Executive Management for Oracle Financial deployment
- Successfully configured and implemented Oracle Financials
- Wrote shell and SQL interfaces that connected to the General Ledger system to produced data feeds and reports
- Monitored database performance, installed and tested upgrades
- Conduct end-user-training sessions in-house and at remote sites
- Created and executed a conversion plan to configure and implement a new leasing application from CCLAS system to InfoLease.

### **EDUCATION**

#### **BS in Computer Science**

MERCY COLLEGE - Dobbs Ferry, NY

#### **Master's in Masters Certificate**

Raritan Valley College - Redwood City, CA

### **SKILLS**

AIX (8 years), Oracle (10+ years), RS6000 (7 years), Sun (7 years), Sybase (2 years)

### **ADDITIONAL INFORMATION**

#### **TECHNOLOGIES**

SOFTWARE: Oracle Exadata +ASM Sybase SQLServer C Visual C++ Erwin Javascript Visual Basic

O/S: LINUX HP-UX SCO SYSTEM V LINUX SOLARIS AIX Windows

HARDWARE: HP SUN NCR IBM (RS6000 cluster & P-Series), Exadata Engineered Systems