

AutoZone (A National retail and service store)

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Project Proposal Part-2

Group Number: 8

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Introduction:

AutoZone, a national retailer of automotive parts and accessories Company has requirement to store the information of the inventory, employees, insurance, servicing, payment plans, supplier details and customer details. AutoZone also want to store the information about locations, jobs done by the employees and automotive retailer branch details.

Description:

- Each retailer in the AutoZone chain needs to be identified based on the retailer id. It can have the basic information like contact, business hour and each AutoZone retailer can have a manager and the website details related to the that location. Multiple employees can work in the one automotive retailer. Each retailer can have in house inventory and external inventory. Automotive retailer address/location needs to be stored. Each automotive retailer can afford multiple jobs or services.
- Inventory product entity serves as a major component and uniquely identified in this system. It manages the various automotive products. It includes the attributes like name, quantity, price, automotive_retailer_id, automobile_id, address_id. It holds the details of the automotive retailer, automobile data. It establishes the relation with suppliers, automotive retailers, part service, automobile, address and bill. It serves as a central component for efficient inventory management, procurement, and tracking within the system.
- Employee entity holds the data of the employees working in AutoZone. Each employee is uniquely identified with their ID. Along with the ID this entity will also have the attributes first name, last name, date of birth, phone number, email address, annual salary, ssn, address, hire date and the automotive retailer ID. An employee can create many bills for the customers and so the employee entity will form a one-to-many relation with the bill entity. More than one employee can have the same address as there is a chance of 2 employees living in the same location. So, employee will form a many to one relationship with the address entity. Many employees can be part of a job and one employee can be part of many jobs. So, employee entity will form many to many relationships with the job entity. As Many employees work in one location, employee entity will form a many to one relationship with the automotive retailer

entity. Employees may receive multiple paychecks over a period. So, Employee entity will form a one-to-many relationship with employee payroll entity.

- Employee payroll entity has the record of paychecks given to employees. Each pay given to an employee is identified by a unique id. This entity has the attributes hours worked (number of hours worked by employee during the pay cycle), start date (start date of the pay cycle), end date (end date of the pay cycle), pay (amount paid to the employee) and employee id (id of the employee that is used to uniquely identify an employee). The employee payroll entity will form a many to one relationship with the employee as one employee may receive many pays over a period.
- AutoZone can have suppliers to inventory who supply the products that stored or used during the services. An inventory can have multiple suppliers and vice versa. Suppliers' information like contact and address needs to be stored. Suppliers can uniquely identified by their id.
- Address entity serves as a global component within the system, defines location information. It is uniquely identified and includes the attributes like apartment number, street, city, state, country, and ZIP code, all of them are mandatory. This entity forms relationships with other entities in various ways: many employees may have a single address, inventory products are associated with specific addresses, automotive retailers and suppliers have distinct addresses, and multiple customers can be linked to one address.
- Bill entity is crucial for recording financial transactions. It is uniquely defined and includes attributes like date, payment mode, insurance, customer, job, employee, sale type (can be an online or offline), and payment plan. It forms relationships with various entities: multiple bills can be linked to one employee, have many-to-many connections with inventory products, and maintain multiple bills of each association with insurance, customers, and payment plans. Additionally, every job has a specific bill.
- Job entity is essential for managing automotive service tasks. It is uniquely defining and includes attributes like date, description, customers, automotive retailers, VIN numbers, and automobiles. All of which are mandatory. "Job" forms key relationships: It establishes a direct link with billing records, multiple jobs are associated with automobiles and automotive retailers, Customers. Various jobs can be done by different employees. Whereas Single job can be performed using multiple part services. This entity serves as a central hub for tracking and managing automotive service jobs.
- Part service like during the service which are automotive parts we are using to get the job done for a vehicle. It may have the information like job details, name/description of the service and it can have quantity of the parts which are using for that service. Part service can be identified by their id. Part service can have type like is it only service or any parts used to get that service done. In this many parts service can be related to one job and it have information related to the inventory products to know the parts related to the which inventory.
- Customer entity represents individuals in the system and is identified uniquely. It includes essential attributes like first name, last name, birthdate, driver's license, phone, and address. Multiple customers may opt for multiple insurance policies. A Customer can be associated with multiple jobs which has multiple bills. Many customers may have the single address. This entity enables efficient management of customer data, service history, and financial transactions.
- Insurance is like if customer wants to utilize his insurance plan for the payment, we need to store the information of that insurance. It can have policy type, provider and claim percentage. The particular insurance plan can be identified by plan id. A customer can have multiple insurance and vice versa. we would also like to include insurance id in the bill, it will be like one insurance plan can be included in many bills.

- Payment plan like if customer interested in the paying in instalments, he can use this option. This payment plan will have the information like plan name, number of instalments and the interest rate related to the payment plan. Each payment can be identified by plan id and multiple bills can have single payment plan.
- Would like to store the information about automobile. So that when the job is performed we can use the parts related to the specific automobile model. It can have the information like manufacture, name, variant, year of the build and color of the vehicle. Each automobile model can be identified by automobile id. An automobile can have multiple products in the inventory and would like to keep the automobile information in the jobs performed. It will be like multiple jobs can be performed to an automobile.

Along with the above description points we have added few more as part of project proposal part 2:

- Inventory-product-supplier is a relation table. Which has a primary and foreign key as inventory_product_id, supplier_id. It has a single attribute quantity. Multiple suppliers will provide multiple products. In this we maintain the product_id, supplier_id and the product quantity provided by the supplier.
- Bill_inventory_product is a relation table. Which has a primary and foreign key as bill_id, inventory_product_id. It has a single attribute quantity. Multiple products will have the multiple bills. In this we maintain the bill_id, product_id and the product quantity in each generated bill.
- Job_employee is a relation table. Which has the primary and foreign key as job_id and employee_id. There are multiple employees, working for the on the different jobs to maintains the those details this table helps to track the respective details. It's a join of employee and job and the job table.
- Customer_insurance is a relation table. Which has the primary and foreign key as customer_id and insurance_id. It has a single attribute status. Many customers can opt for multiple insurances. This table helps to track the insurance opted by the customers and their status.
- In the automotive_retailer a name attribute is newly added. The name identifier helps to track the name of specific automotive_retailer.

Assumptions:

- A product can be available both in store and in warehouse. If the product has automotive_retailer_id same as address id, that means the product is in store. And if automotive_retailer_id is null, then the inventory is not in store.
- Automobile entity will have the generic information about the model, manufacturer and make of the automobile available in the market.
- A job will be created if a customer wants to get his automobile serviced in the store and the bill will be generated for the job.
- A bill can be generated without a job when a customer purchases products from the store without getting the service done in store where this data is stored in bill_inventory table.
- Employee can receive multiple payments over a period. This is maintained in employee_payroll table.

- Employee can be part of the job and he can generate bill for the job. And employee can sell the products to the customer who is not seeking service (not part of the job) from the retailer.
- Address is global table where the addresses of suppliers, customers, employees, inventory and retailer are stored.
- customer can pay the bill directly or he can opt for payment plan. Customer can select the payment plan from the payment_plan table.
- Job will be created if a customer opts services from the retailer. services are work done by the employees on the automobile to fix issues or install accessories.
- Part_services have the information about the products used in the job. One Job can have multiple products.
- Insurance table has different insurance policies that are available in the market.
- more than one person (customer or employee) can have same address. but no 2 suppliers and retailers can have the same address.
- product id in part service can be null as labor chargers of a job can also be clocked in part service where no inventory will be tagged to that service.
- The total amount of the bill of a customer who opted for a payment plan will be recorded as a transaction in bill table. And the installments are also saved as transactions in the same table.

Along with the above assumptions we have added few more new assumptions as part of project proposal part 2:

- A phone number must consist of 10 digits and should only contain numerical characters, with no special symbols or spaces.
- Each email address must be unique, meaning no two users can share the same email ID.
- In the bill table, the sale type can be categorized as either online or offline.
- The vin_number in the job table must have a fixed length of 17 characters.
- The quantity of one item in a bill cannot exceed 10, as customers are limited to purchasing a maximum of 10 identical items.
- The status of insurance in the customer_insurance table can be either active or inactive.
- Zip codes are required to have a fixed length of 5 characters.
- Employees cannot work for more than 100 hours within a two-week period.
- The mode of payment in the bill table can be either cash or card.

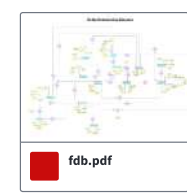
Analysis					
Table	Attributes	Domain Constraints	Constraints	Constraint Name	Relations
automotive_retailer	id	RAW(16)	PRIMARY KEY	NA	automotive_retailer has one to many relationship with employee, automotive_retailer has one to many relationship with inventory_product, automotive_retailer has one to one relationship with address, automotive_retailer has one to many relationship with job
	phone	VARCHAR2(20)	UNIQUE,	invalid_automotive_retailer_phone	
	name	VARCHAR2(30)	NOT NULL	NA	
	email	VARCHAR2(255)	UNIQUE,	invalid_automotive_retailer_email	
	website	VARCHAR2(255)	NOT NULL, UNIQUE	NA	
	business_hours	VARCHAR2(20)	NOT NULL	NA	
	manager_id	RAW(16)	NOT NULL, FOREIGN KEY (manager_id) REFERENCES employee(id)	NA	
address_id	RAW(16)	NOT NULL, FOREIGN KEY (address_id) REFERENCES address(id)	NA		
inventory_product	id	RAW(16)	PRIMARY KEY	NA	inventory_product has many to many relationship with supplier, inventory_product has many to one realationship with automotive_retailer, inventory_product has many to many relationship with bill, inventory_product has one to many relationship with part_service, inventory_product has many to one relationship with automobile, inventory_product has many to one relationship with address
	name	VARCHAR2(100)	NOT NULL	NA	
	quantity	INTEGER	NOT NULL	NA	
	price	INTEGER	NOT NULL	NA	
	automotive_retailer_id	RAW(16)	NOT NULL, FOREIGN KEY (automotive_retailer_id) REFERENCES automotive_retailer(id)	NA	
	automobile_id	RAW(16)	FOREIGN KEY (automobile_id)	NA	
	address_id	RAW(16)	NOT NULL, FOREIGN KEY (address_id) REFERENCES address(id)	NA	
automobile	id	RAW(16)	PRIMARY KEY	NA	automobile has one to many relationship with inventory_product, automobile has one to many relationship with job
	manufacturer	VARCHAR2(100)	NOT NULL	NA	
	name	VARCHAR2(100)	NOT NULL	NA	
	variant	VARCHAR2(100)	NOT NULL	NA	
	year	VARCHAR2(10)	NOT NULL	NA	
	color	VARCHAR2(100)	NOT NULL	NA	
supplier	id	RAW(16)	PRIMARY KEY	NA	supplier has many to many relationship with inventory_product, supplier has one to one relationship with address
	name	VARCHAR2(100)	NOT NULL	NA	
	phone	VARCHAR2(20)	UNIQUE,	invalid_supplier_phone	
	address_id	RAW(16)	NOT NULL, FOREIGN KEY (address_id) REFERENCES address(id)	NA	
	id	RAW(16)	PRIMARY KEY	NA	
	first_name	VARCHAR2(100)	NOT NULL	NA	
	last_name	VARCHAR2(100)	NOT NULL	NA	
	dob	TIMESTAMP	NOT NULL	NA	
	phone	VARCHAR2(20)	UNIQUE,	invalid_employee_phone	

Employee	email	VARCHAR2(255)	UNIQUE,	invalid_employee_email	employee has one to many relationship with employee_payroll, employee has many to one relationship with automotive_retailer, employee has one to many relationship with bill, employee has many to one relationship with address, employee has many to many relationship with job
	annual_salary	INTEGER	NOT NULL	NA	
	ssn	CHAR(9)	NOT NULL, UNIQUE	NA	
	automotive_retailer_id	RAW(16)	NOT NULL, FOREIGN KEY (automotive_retailer_id) REFERENCES automotive_retailer(id)	NA	
	address_id	RAW(16)	NOT NULL, FOREIGN KEY (address_id) REFERENCES address(id)	NA	
	hire_date	TIMESTAMP	NOT NULL	NA	
employee_payroll	id	RAW(16)	PRIMARY KEY	NA	employee_payroll has many to one relationship with employee
			NOT NULL, CONSTRAINT chk_hours_worked CHECK (hours_worked <= 100)	NA	
	hours_worked	NUMBER		NA	
	start_date	TIMESTAMP	NOT NULL	NA	
	end_date	TIMESTAMP	NOT NULL	NA	
	pay	NUMBER	NOT NULL	NA	
		NOT NULL, FOREIGN KEY (employee_id) REFERENCES employee(id)			
employee_id	RAW(16)		NA		
address	id	RAW(16)	PRIMARY KEY	NA	address has one to many relationship with employee, address has one to many relationship with inventory_product, address has one to one relationship with automotive_retailer, address has one to one relationship with supplier, address has one to many relationship with customer
	apartment_no	NUMBER	NOT NULL	NA	
	street	VARCHAR2(100)	NOT NULL	NA	
	city	VARCHAR2(100)	NOT NULL	NA	
	state	VARCHAR2(2)	NOT NULL	NA	
	country	VARCHAR2(50)	NOT NULL	NA	
		NOT NULL, CHECK (LENGTH(zip) = 5)	NA		
zip	CHAR(5)		NA		
	id	RAW(16)	PRIMARY KEY	NA	bill has many to one relationship with employee, bill has many to many relationship with inventory_product, bill has many to one relationship with insurance
	bill_date	TIMESTAMP	NOT NULL	NA	
			NOT NULL, CHECK (mode_of_payment IN ('CARD', 'CASH'))	invalid_mode_of_payment	
	mode_of_payment	CHAR(4)			
			NOT NULL, FOREIGN KEY (insurance_id) REFERENCES insurance(id)	NA	
	insurance_id	RAW(16)			
		NOT NULL, FOREIGN KEY (customer_id) REFERENCES customer(id)	NA		
customer_id	RAW(16)		NA		
		NOT NULL, FOREIGN KEY (job_id) REFERENCES job(id)			
job_id	RAW(16)		NA		

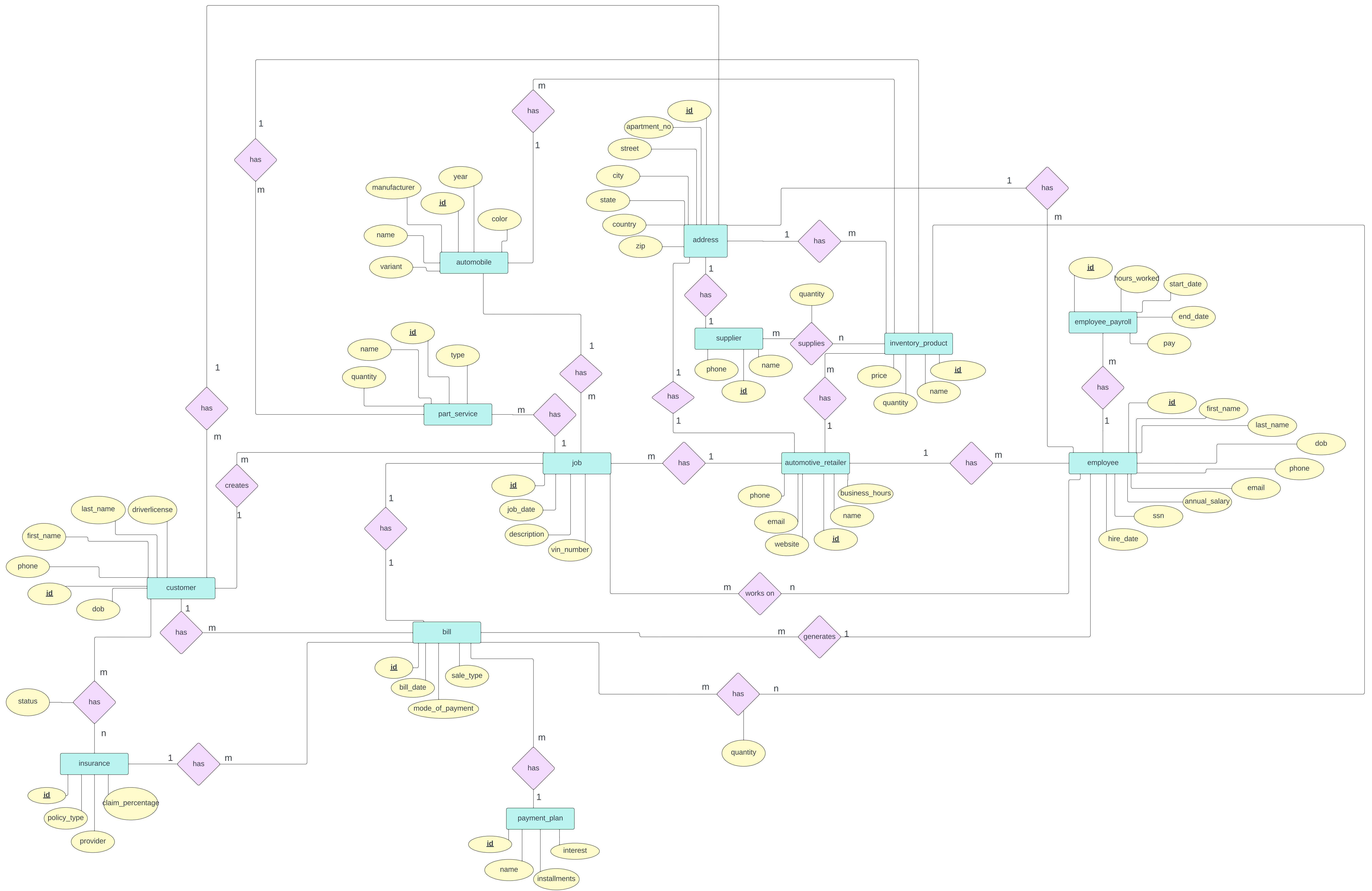
bill	employee_id	RAW(16)	NOT NULL, FOREIGN KEY (employee_id) REFERENCES employee(id)	NA	bill has many to one relationship with insurance, bill has one to one relationship with job, bill has many to one relationship with payment_plan
	sale_type	CHAR(7)	NOT NULL, CHECK (mode_of_payment IN ('ONLINE', 'OFFLINE'))	invalid_sale_type	
	payment_plan_id	RAW(16)	NOT NULL, FOREIGN KEY (payment_plan_id) REFERENCES payment_plan(id), CONSTRAINT CHK_ModeOfPayment CHECK (ModeOfPayment IN ('cash', 'credit'))	NA	
job	id	RAW(16)	PRIMARY KEY	NA	job has one to one realtionship with bill, job has many to one realtionship with automobile, job has many to one realtionship with automotive_retailer, job has many to many relationship with employee, job has one to many realtionship with part_service, job has many to one realtionship with customer
	job_date	TIMESTAMP	NOT NULL	NA	
	description	VARCHAR2(255)	NOT NULL	NA	
	customer_id	RAW(16)	NOT NULL, FOREIGN KEY (customer_id) REFERENCES customer(id)	NA	
	automotive_retailer_id	RAW(16)	NOT NULL, FOREIGN KEY (automotive_retailer_id) REFERENCES automotive_retailer(id)	NA	
	vin_number	VARCHAR2(100)	NOT NULL, CHECK (LENGTH(vin_number) = 17)	NA	
	automobile_id	RAW(16)	NOT NULL, FOREIGN KEY (automobile_id) REFERENCES automobile(id)	NA	
part_service	id	RAW(16)	PRIMARY KEY	NA	part_service has many to one relationship with job, part_service has many to one relationship with inventory_product
	name	VARCHAR2(100)	NOT NULL	NA	
	quantity	INTEGER	NOT NULL	NA	
	job_id	RAW(16)	NOT NULL, FOREIGN KEY (job_id) REFERENCES job(id)	NA	
	inventory_product_id	RAW(16)	NOT NULL, FOREIGN KEY (inventory_product_id) REFERENCES inventory_product(id)	NA	
	type	CHAR(7)	NOT NULL, CHECK (mode_of_payment IN ('SERVICE', 'PART'))	invalid_part_service_type	
payment_plan	id	RAW(16)	PRIMARY KEY	NA	payment_plan has one to many relationship with bill
	name	VARCHAR2(100)	NOT NULL	NA	
	installments	INTEGER	NOT NULL	NA	
	interest	INTEGER	NOT NULL	NA	

customer	id	RAW(16)	PRIMARY KEY	NA	customer has many to many relationship with insurance, customer has one to many relationship with job, customer has many to one relationship with address, customer has one to many relationship with bills
	first_name	VARCHAR2(100)	NOT NULL	NA	
	last_name	VARCHAR2(100)	NOT NULL	NA	
	dob	TIMESTAMP	NOT NULL	NA	
	driverlicense	VARCHAR2(50)	UNIQUE, NOT NULL	NA	
	phone	VARCHAR2(20)	NOT NULL, UNIQUE, CHECK (REGEXP_LIKE (phone, '^ \d{3}) \d{3}-\d {4}\$'))	invalid_customer_phone	
	address_id	RAW(16)	NOT NULL, FOREIGN KEY (address_id) REFERENCES address(id)	NA	
insurance	id	RAW(16)	PRIMARY KEY	NA	insurance has many to many relationship with customer, insurance has one to many relationship with bill
	policy_type	VARCHAR2(100)	NOT NULL	NA	
	provider	VARCHAR2(100)	NOT NULL	NA	
	claim_percentage	INTEGER	NOT NULL	NA	
inventory_product_supplier	inventory_product_id	RAW(16)	PRIMARY KEY, NOT NULL, FOREIGN KEY (inventory_product_id) REFERENCES inventory_product(id)"	NA	NA
	supplier_id	RAW(16)	PRIMARY KEY, NOT NULL, FOREIGN KEY (supplier_id) REFERENCES supplier(id)	NA	
	quantity	INTEGER	NOT NULL	NA	
bill_inventory_product	bill_id	RAW(16)	PRIMARY KEY, NOT NULL, FOREIGN KEY (bill_id) REFERENCES bill(id)"	NA	NA
	inventory_product_id	RAW(16)	PRIMARY KEY, NOT NULL, FOREIGN KEY (inventory_product_id) REFERENCES inventory_product(id)"	NA	
	quantity	INTEGER	NOT NULL, CHECK (quantity <= 10)	NA	
job_employee	job_id	RAW(16)	PRIMARY KEY, NOT NULL, FOREIGN KEY (job_id) REFERENCES job(id)"	NA	NA

	employee_id	RAW(16)	PRIMARY KEY, NOT NULL, FOREIGN KEY (employee_id) REFERENCES employee(id)"	NA	NA
customer_insurance	customer_id	RAW(16)	PRIMARY KEY, NOT NULL, FOREIGN KEY (customer_id) REFERENCES customer(id)"	NA	NA
	insurance_id	RAW(16)	PRIMARY KEY, NOT NULL, FOREIGN KEY (insurance_id) REFERENCES insurance(id)"	NA	
	status	CHAR(8)	NOT NULL, CHECK (status IN ('active', 'inactive'))	NA	



Entity Relationship Diagram



ERD Transformations –

1. automotive_retailer(id, name, phone, email, website, business_hours, manager_id,
address_id)
2. inventory_product (id, name, quantity, price, automotive_retailer_id, automobile_id,
address_id)
3. automobile (id, manufacturer, name, variant, year, color)
4. supplier(id, name, phone, address_id)
5. employee(id, first_name, last_name, dob, phone, email, annual_salary, ssn, hire_date,
automotive_retailer_id, address_id)
6. employee_payroll (id, hours_worked, start_date, end_date, pay, employee_id)
7. address (id, apartment_no, street, city, state, country, zip)
8. bill (id, bill_date, mode_of_payment, sale_type, insurance_id, customer_id, job_id,
employee_id, payment_plan_id)
9. part_service (id, name, quantity, type, job_id, inventory_product_id)
10. payment_plan (id, name, installments, interest)
11. customer (id, first_name, last_name, dob, driverlicense, phone, address_id)
12. insurance(id, policy_type, provider, claim_percentage)
13. job(id, job_date, description, vin_number, customer_id, automotive_retailer_id,
automobile_id)
14. inventory_product_supplier(inventory product id, supplier id, quantity)
15. bill_inventory_product(bill id, inventory product id, quantity)
16. job_employee(job id, employee id)

17. customer_insurance(**customer_id**, **insurance_id**, status)

Created Common Database and Granting access to Users:

The screenshot shows the 'Create Autonomous Database' page in the Oracle Cloud console. The page has a dark header with the Oracle Cloud logo and a search bar. Below the header, the title 'Create Autonomous Database' is displayed. The main content area is a form titled 'Provide basic information for the Autonomous Database'. It contains three input fields: 'Compartment' (set to 'kanakalakshmi (root)'), 'Display name' (set to 'GROUP_8_FDB_PROJECT'), and 'Database name' (set to 'GROUP8FDBPROJECT'). Below these fields, there are four options for 'Choose a workload type': 'Data Warehouse' (selected), 'Transaction Processing', 'JSON', and 'APEX'. At the bottom of the form, there are buttons for 'Create Autonomous Database', 'Save as stack', and 'Cancel'. The footer of the page contains links for 'Terms of Use and Privacy' and 'Cookie Preferences', and a copyright notice for 2023.

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Create Autonomous Database

Provide basic information for the Autonomous Database

Compartment
kanakalakshmi (root)

Display name
GROUP_8_FDB_PROJECT
A user-friendly name to help you easily identify the resource.

Database name
GROUP8FDBPROJECT
The name must contain only letters and numbers, starting with a letter. Maximum of 30 characters.

Choose a workload type

Data Warehouse
Built for decision support and data warehouse workloads. Fast queries over large volumes of data.

Transaction Processing
Built for transactional workloads. High concurrency for short-running queries and transactions.

JSON
Built for JSON-centric application development. Creation and deployment of low-code applications, with database storage.

APEX
Built for Oracle APEX application development. Creation and deployment of low-code applications, with database included.

Create Autonomous Database Save as stack Cancel

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Figure-1: Creating DB

To create the common database, we need to provide some basic information such as Display name, Database name and workload type as Data warehouse.

The screenshot shows the 'Autonomous Database details' page in the Oracle Cloud console. The page has a dark header with the Oracle Cloud logo and a search bar. Below the header, the title 'Autonomous Database details' is displayed. The main content area shows the details for the database 'GROUP_8_FDB_PROJECT'. On the left, there is a large orange square with the letters 'ADW' and the word 'PROVISIONING' below it. To the right of this, there are tabs for 'Database actions', 'Database connection', 'Performance hub', 'Manage resource allocation', and 'More actions'. Below these tabs, there are two tabs: 'Autonomous Database information' (selected) and 'Tool configuration'. The 'Autonomous Database information' tab shows the following details: 'General information' (Database name: GROUP8FDBPROJECT, Workload type: Data Warehouse, Compartment: kanakalakshmi (root), OCID: ...aqhsjq, Created: Sat, Oct 7, 2023, 05:30:13 UTC, License type: License included, Database version: 19c, Lifecycle state: Provisioning, Instance type: Paid, Character set: AL32UTF8, National character set: AL16UTF16, Auto start/stop schedule: Disabled, Mode: Read/write), 'Disaster recovery' (Role: -, Local: Not enabled, Cross-region: Not enabled), 'Backup' (Automatic backup retention period: 3 days, Total backup storage: -, Last automatic backup: No active backups exist for this database, Next long-term backup: -, Long-term backup schedule: Schedule), and 'Network'. The footer of the page contains links for 'Terms of Use and Privacy' and 'Cookie Preferences', and a copyright notice for 2023.

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Overview > Autonomous Database > Autonomous Database details

GROUP_8_FDB_PROJECT

Database actions Database connection Performance hub Manage resource allocation More actions

Autonomous Database information Tool configuration Tags

General information

Database name: GROUP8FDBPROJECT
Workload type: Data Warehouse
Compartment: kanakalakshmi (root)
OCID: ...aqhsjq Show Copy
Created: Sat, Oct 7, 2023, 05:30:13 UTC
License type: License included
Database version: 19c
Lifecycle state: Provisioning Check database availability
Instance type: Paid
Character set: AL32UTF8
National character set: AL16UTF16
Auto start/stop schedule: Disabled Schedule
Mode: Read/write Edit

Disaster recovery

Role: -
Local: Not enabled
Cross-region: Not enabled

Backup

Automatic backup retention period: 3 days Edit
Total backup storage: -
Last automatic backup: No active backups exist for this database.
Next long-term backup: -
Long-term backup schedule: Schedule

Network

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Figure-2: DB provisioning

The screenshot displays the Oracle Cloud console interface for an Autonomous Database (ADW) instance. The top navigation bar includes the Oracle Cloud logo, a search bar, and the region 'US Midwest (Chicago)'. The breadcrumb trail shows 'Overview > Autonomous Database > Autonomous Database details'. The main header features a large green 'ADW' logo and the instance name 'GROUP_8_FDB_PROJECT' with a 'Primary' status indicator. Below the header, there are tabs for 'Database actions', 'Database connection', 'Performance hub', 'Manage resource allocation', and 'More actions'. The 'Autonomous Database information' tab is active, showing 'General information' and 'Disaster recovery' sections. The 'General information' section lists details such as Database name, Workload type, Compartment, OCID, Created date, License type, Database version, Lifecycle state, Instance type, Character set, National character set, Auto start/stop schedule, and Mode. The 'Disaster recovery' section shows Role, Local, Cross-region, and Backup settings. A 'Backup' section provides details on the automatic backup retention period, total backup storage, last automatic backup, next long-term backup, and long-term backup schedule. A 'Network' section is also visible at the bottom.

Autonomous Database information

General information

- Database name: GROUP8FDBPROJECT
- Workload type: Data Warehouse
- Compartment: kanakalakshmi (root)
- OCID: ...aqhsjq [Show](#) [Copy](#)
- Created: Sat, Oct 7, 2023, 05:30:13 UTC
- License type: License included
- Database version: 19c
- Lifecycle state: Available [Check database availability](#)
- Instance type: Paid
- Character set: AL32UTF8
- National character set: AL16UTF16
- Auto start/stop schedule: Disabled [Schedule](#)
- Mode: Read/write [Edit](#)

Disaster recovery

- Role: Primary
- Local: Backup-based [Upgrade to Autonomous Data Guard](#) [Switchover](#)
- Cross-region: Not enabled

Backup

- Automatic backup retention period: 3 days [Edit](#)
- Total backup storage: -
- Last automatic backup: No active backups exist for this database.
- Next long-term backup: -
- Long-term backup schedule: [Schedule](#)

Network

Figure-3: DB Provisioned

The screenshot displays the Oracle Cloud console interface for the 'Autonomous Databases' section. The top navigation bar includes the Oracle Cloud logo, a search bar, and the region 'US Midwest (Chicago)'. The breadcrumb trail shows 'Overview > Autonomous Database > Autonomous Databases'. The main header features the title 'Autonomous Databases in kanakalakshmi (root) Compartment' and a description of Autonomous Database. Below the header, there is a 'Create Autonomous Database' button and a table listing the databases. The table has columns for Display name, State, Compute, Storage, Workload type, Disaster recovery, and Created. The table shows one database, 'GROUP_8_FDB_PROJECT', which is 'Available' and has 2 ECPU, 1 TB storage, and is a 'Data Warehouse' workload type. The 'Disaster recovery' column shows 'Primary'. The 'Created' column shows 'Sat, Oct 7, 2023, 05:30:13 UTC'. The table footer indicates 'Displaying 1 Autonomous Database' and '1 of 1'.

Autonomous Databases in kanakalakshmi (root) Compartment

Autonomous Database delivers fast performance and requires no database administration. It performs all routine database maintenance tasks without human intervention while the system is running. [Learn more](#).

[Create Autonomous Database](#)

Display name	State	Compute	Storage	Workload type	Disaster recovery	Created
GROUP_8_FDB_PROJECT	Available	2 ECPU	1 TB	Data Warehouse	Primary	Sat, Oct 7, 2023, 05:30:13 UTC

Displaying 1 Autonomous Database < 1 of 1 >

Figure-4: DB Dashboard

Once after creating the Common DB, we can see the complete details here.

Creating Users from admin:

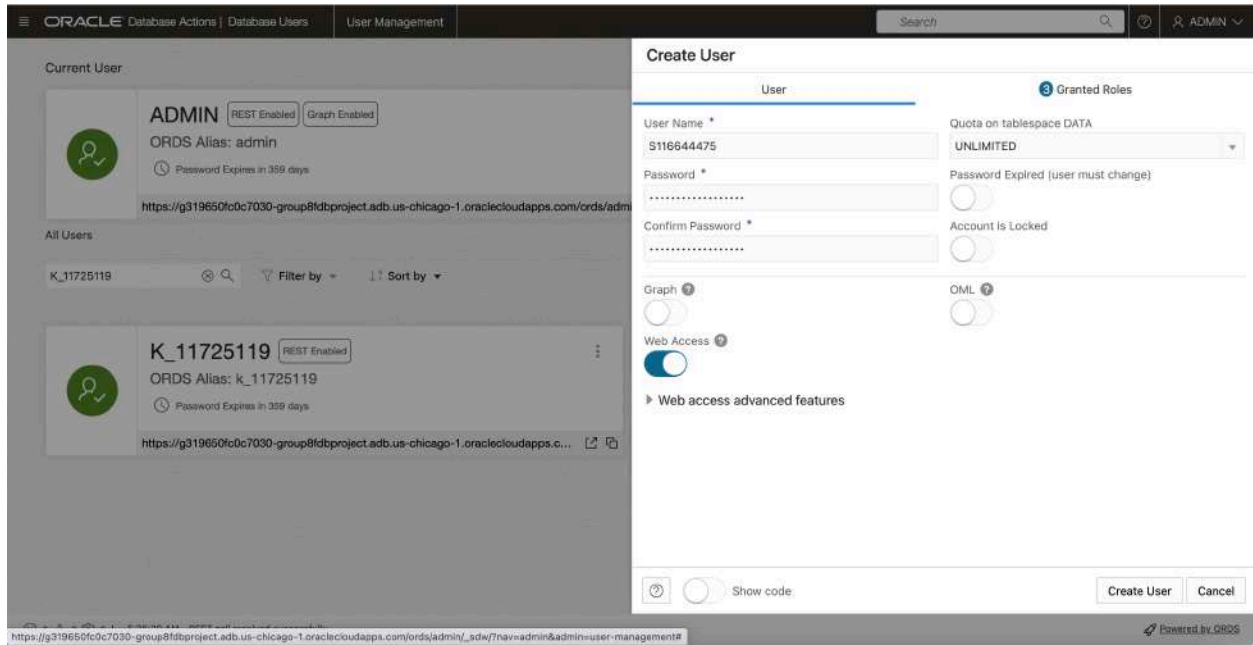


Figure-5: created S116644475 user.

In the same way remaining users were created. Here are the details of all the users:

ADMIN – Kanakalakshmi Murikipudi

V_11642773 – Vishnu Suidreddy - https://g319650fc0c7030-group8fdbproject.adb.us-chicago-1.oraclecloudapps.com/ords/v_11642773/_sdw/

SR_11667743 – Srinivas - https://g319650fc0c7030-group8fdbproject.adb.us-chicago-1.oraclecloudapps.com/ords/sr_11667743/_sdw/

S116644475 – Sindhu - https://g319650fc0c7030-group8fdbproject.adb.us-chicago-1.oraclecloudapps.com/ords/s116644475/_sdw/

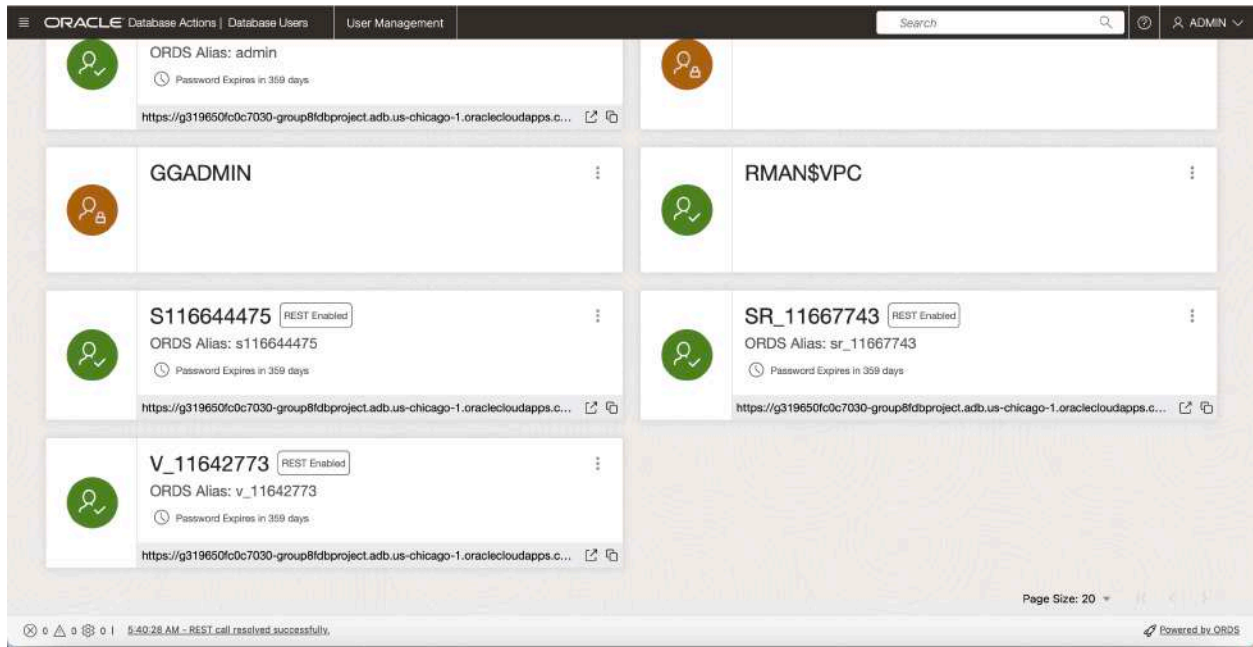


Figure-6: Displayed all the created users.

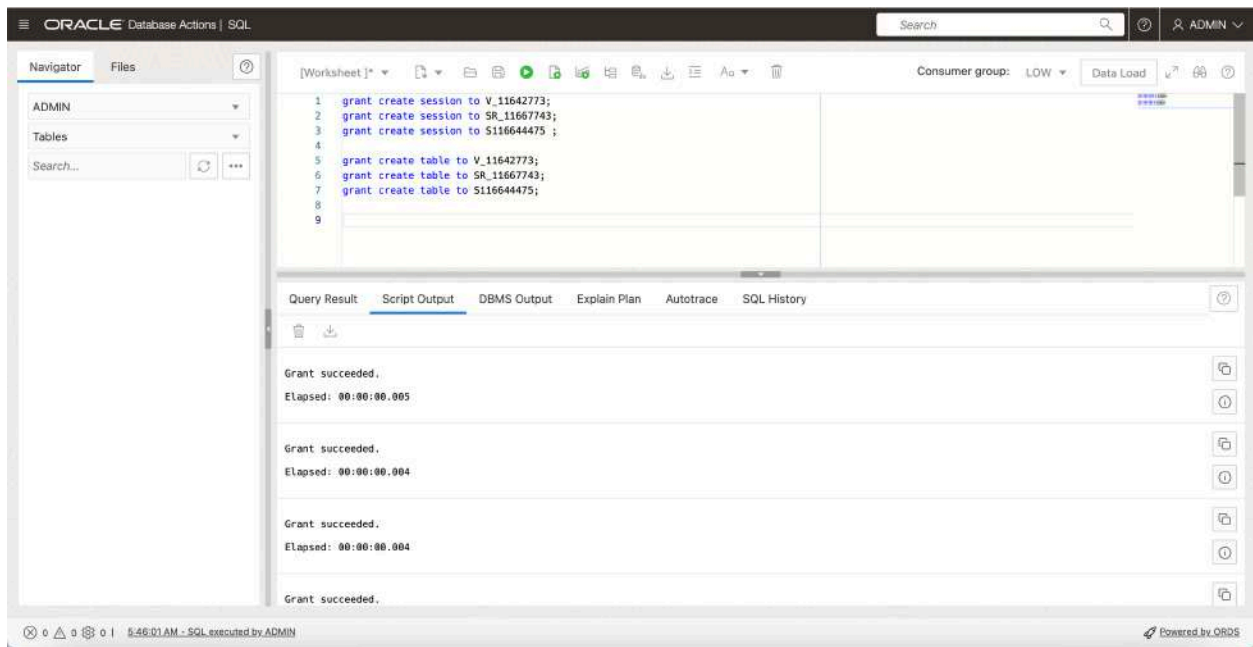


Figure-7: Granted access to create the session and create the tables to all the users.

Name	Cloud Accounts	Table Names
Naga Venkata Kanakalakshmi	ADMIN	automobile, supplier, automotive_retailer, inventory_product, inventory_product_supplier
Vishnu Vardhan Reddy Sudireddy	V_11642773	Employee, employee_payroll, job, job_employee
Srinivas Sankula	SR_11667743	address, part_service, bill, bill_inventory_product
Sai Sindhu Rudraraju	S116644475	payment_plan, insurance, customer, customer_insurance

Below are the reference screenshots attached for table creations and insertions with respect to user in a sequence.

Creation and Insertion of Data in Tables:

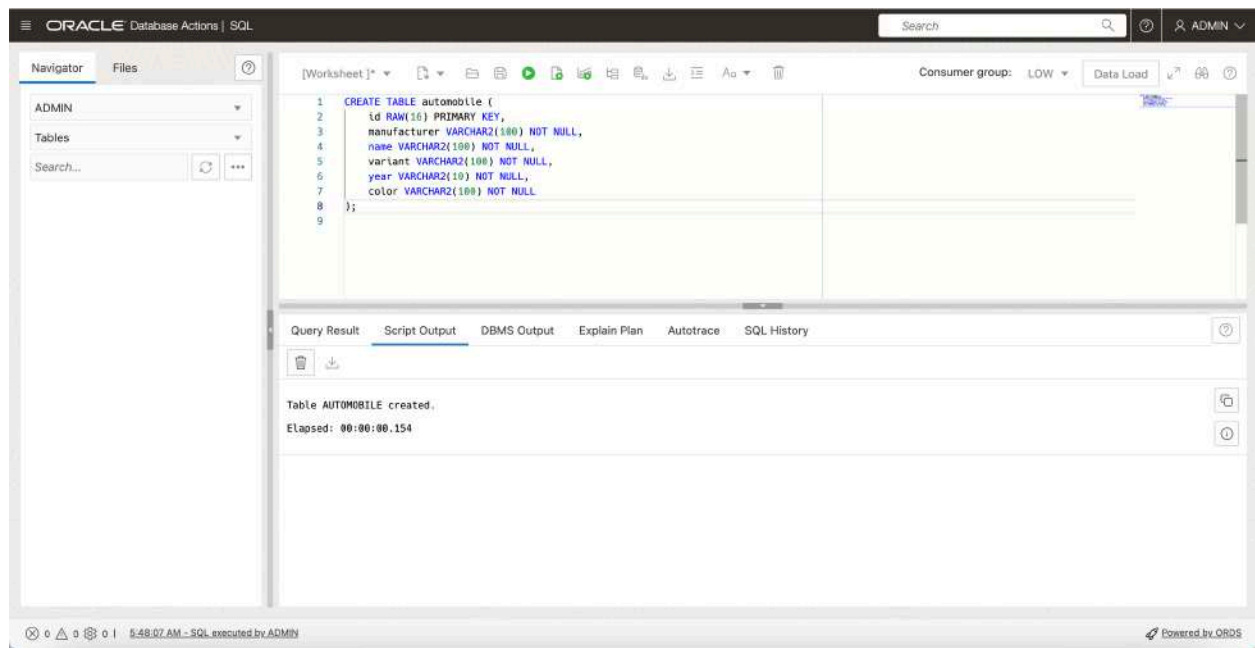


Figure-1: Created Automobile table.

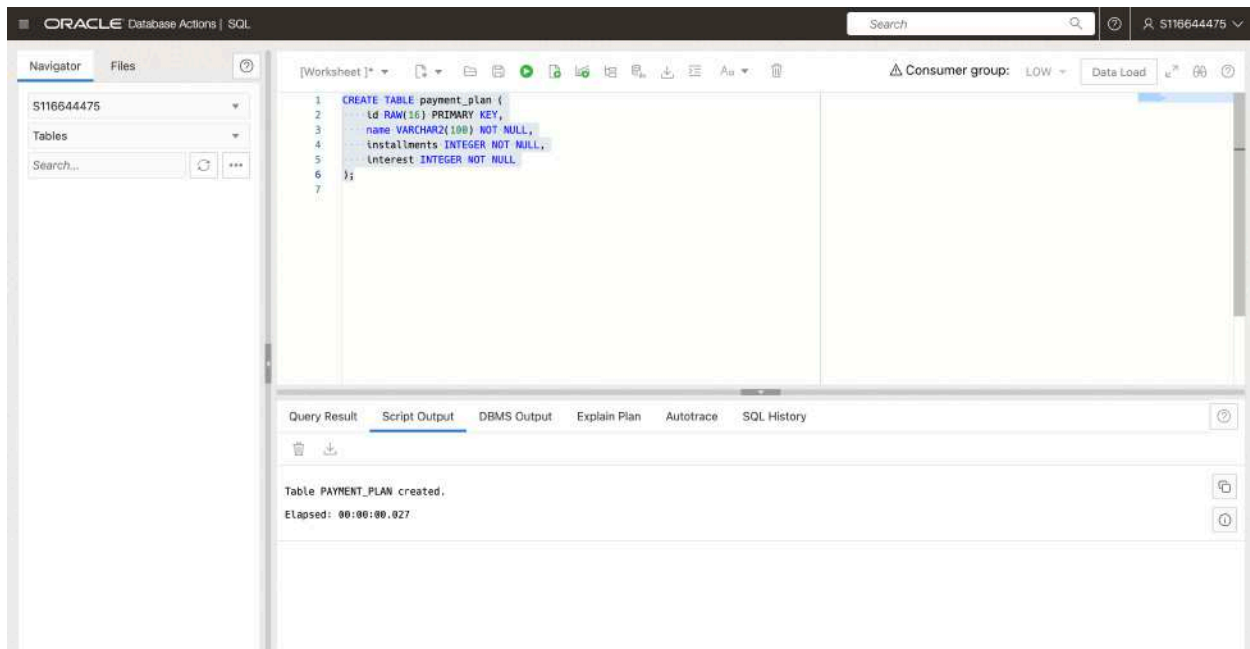


Figure-2: Created Payment plan table.

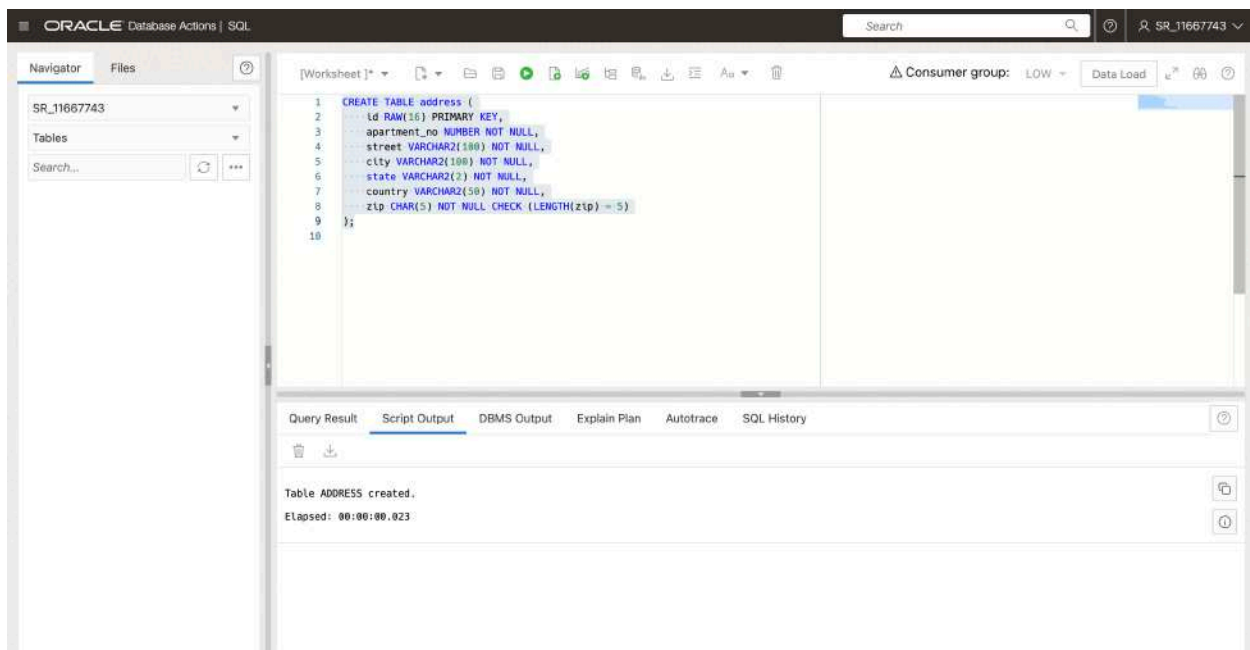


Figure-3: Created Address table

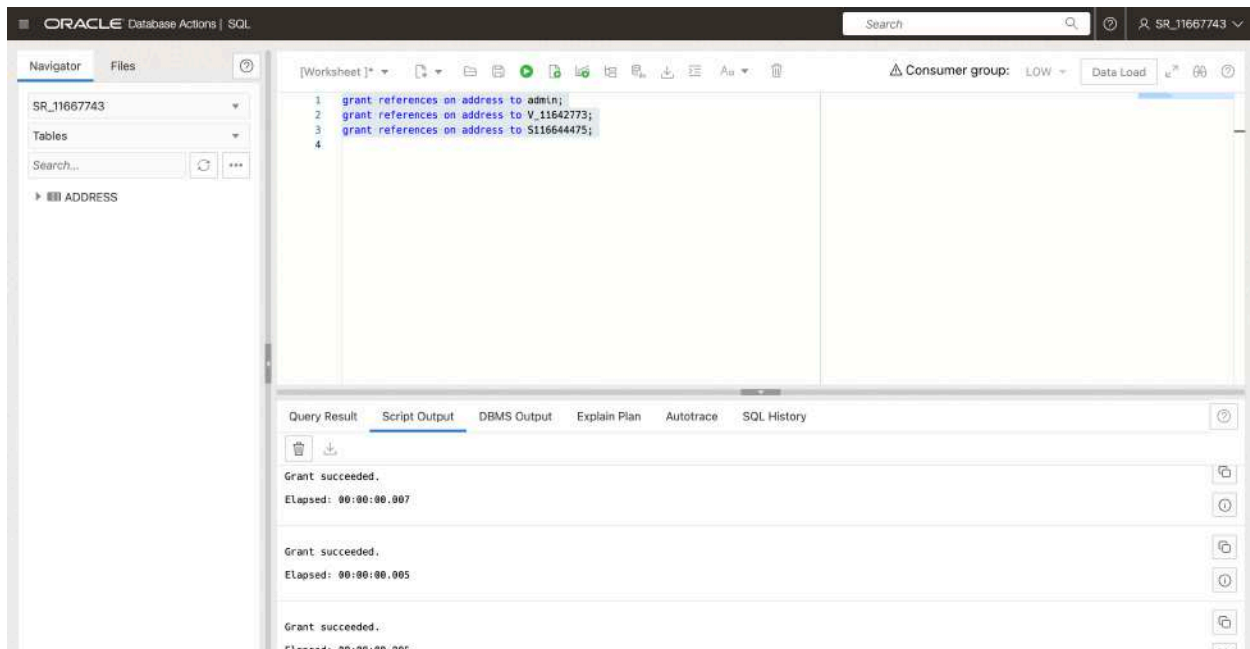


Figure-4: Granted Address References to remaining users from SR_11667743.

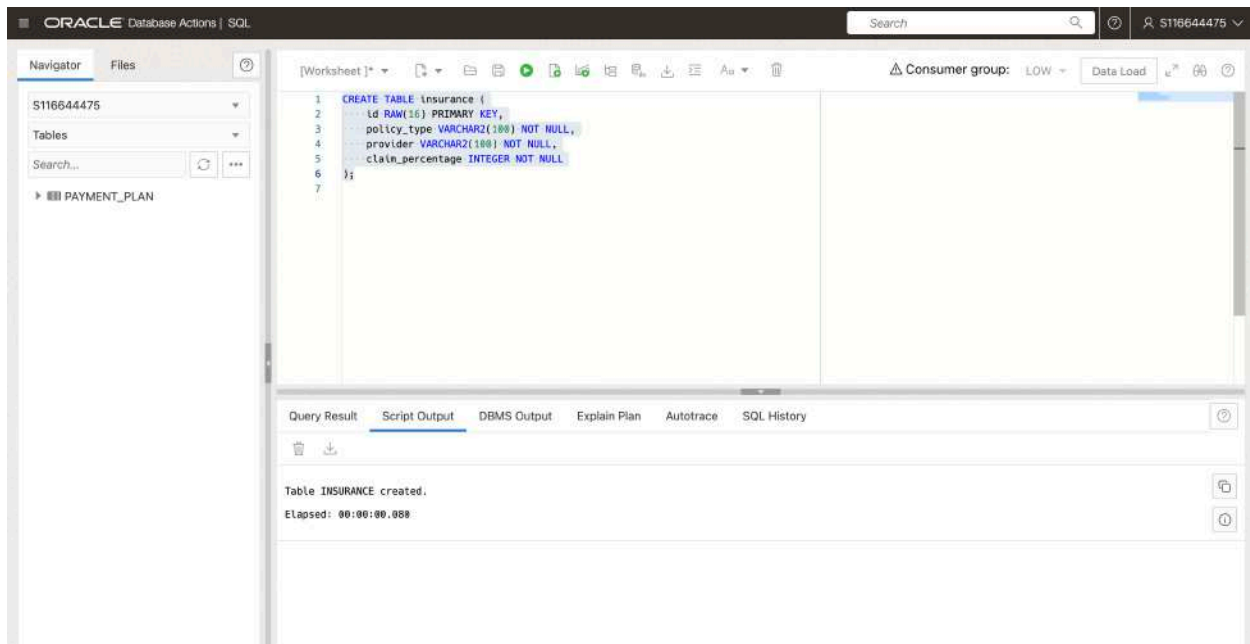


Figure-5: Created Insurance table.

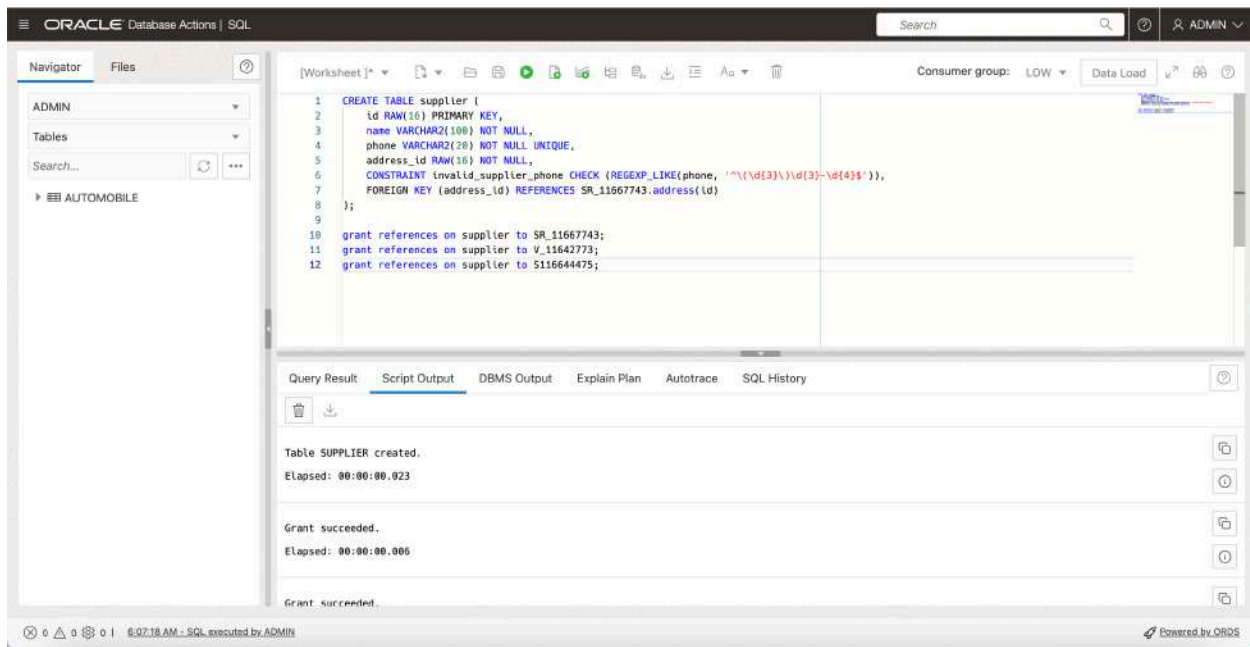


Figure-6: Created Supplier table and provided grant access to remaining users.

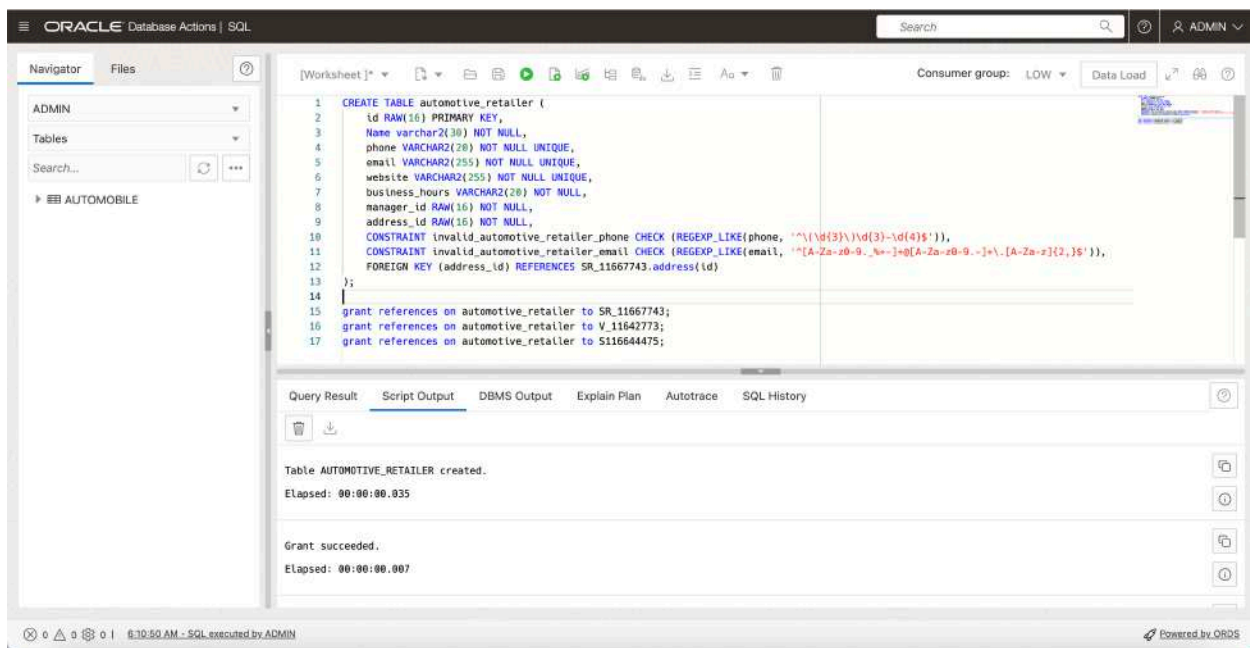


Figure-7: Created Automotive Retailer table and provided grant access to remaining users.

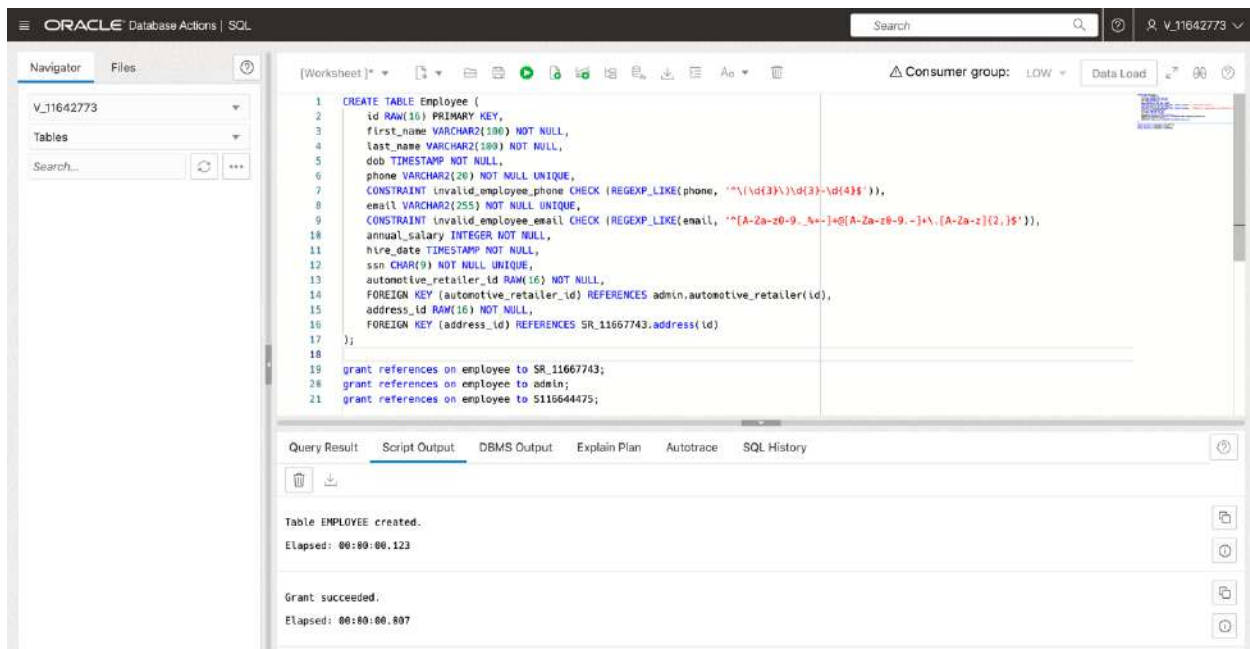


Figure-8: Created Employee table and provided grant access to remaining users.

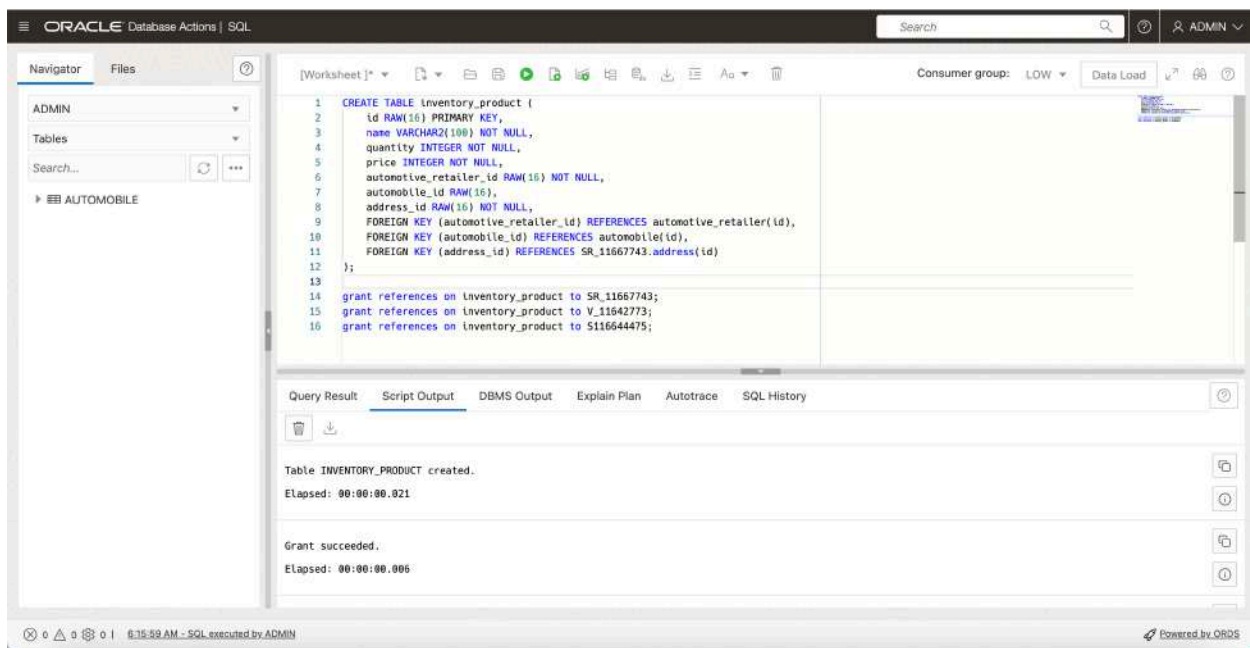


Figure-9: Created Inventory Product table and provided grant access to remaining users.

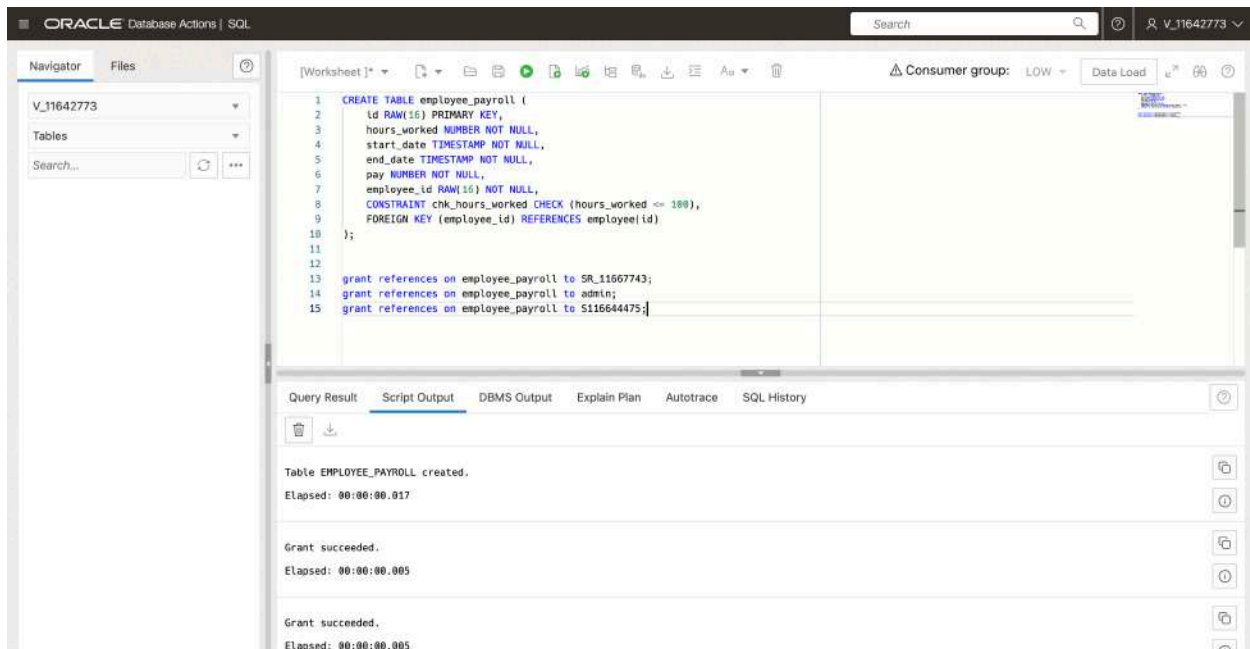


Figure-10: provided Employee Payroll table and created grant access to remaining users.

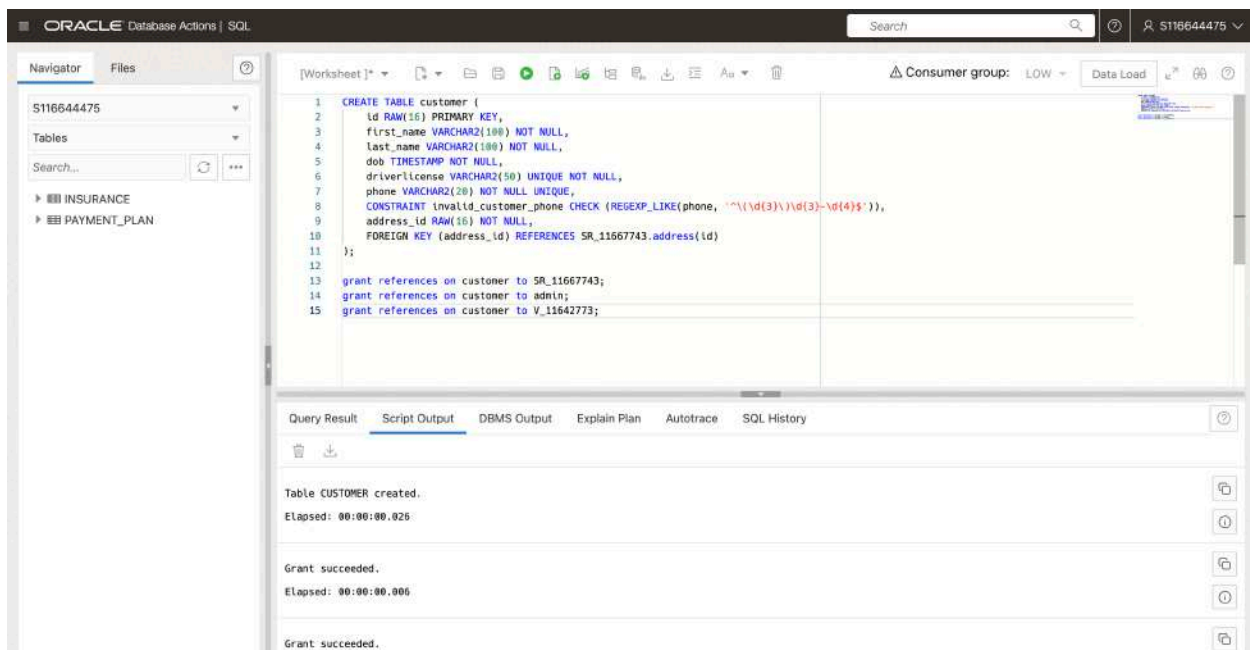


Figure-11: Created Customer table and provided grant access to remaining users.

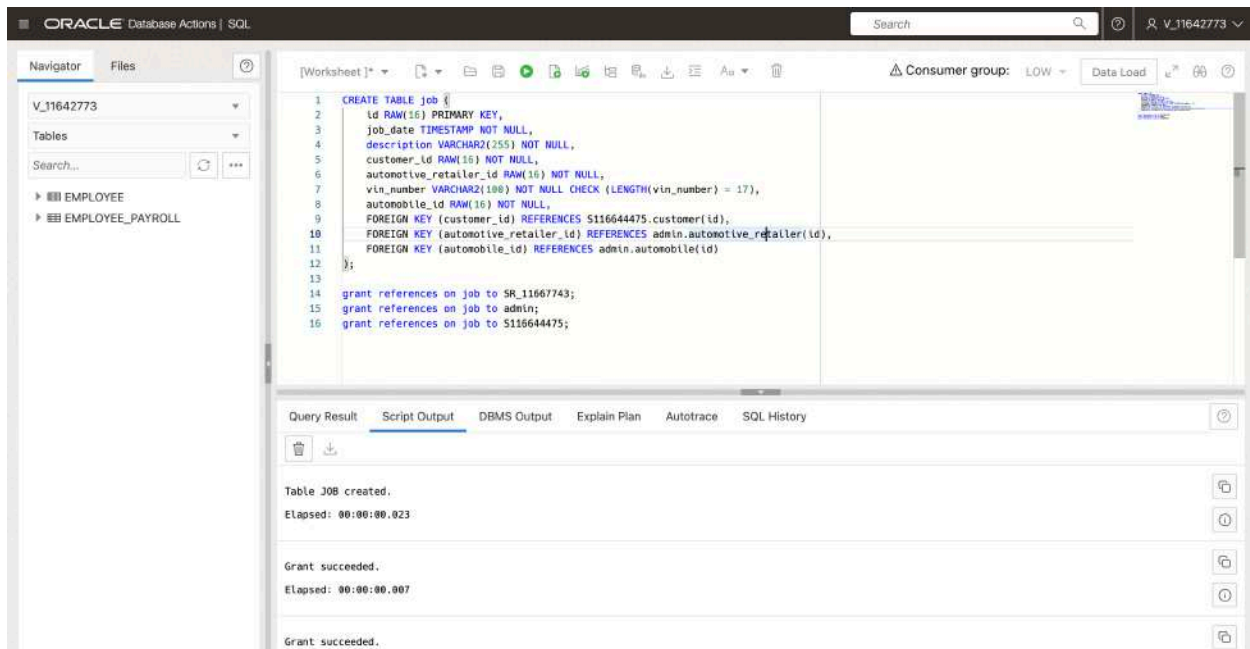


Figure-12: Created Job table and provided grant access to remaining users.

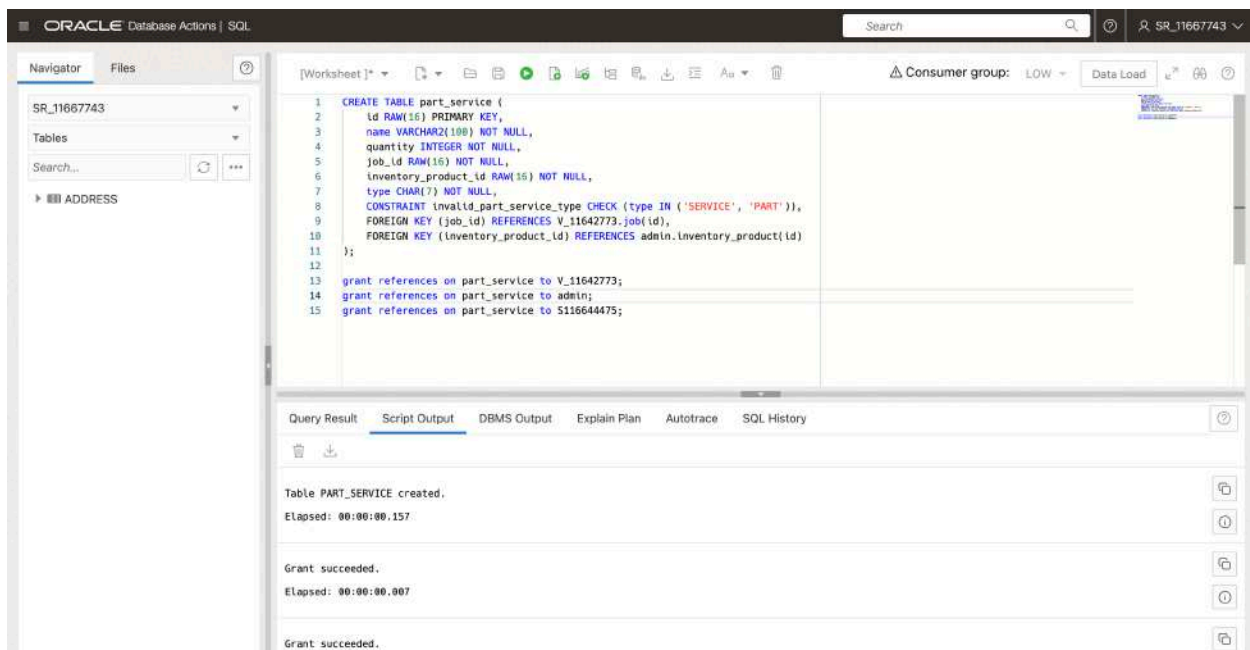


Figure-13: Created Part Service table and provided grant access to remaining users.

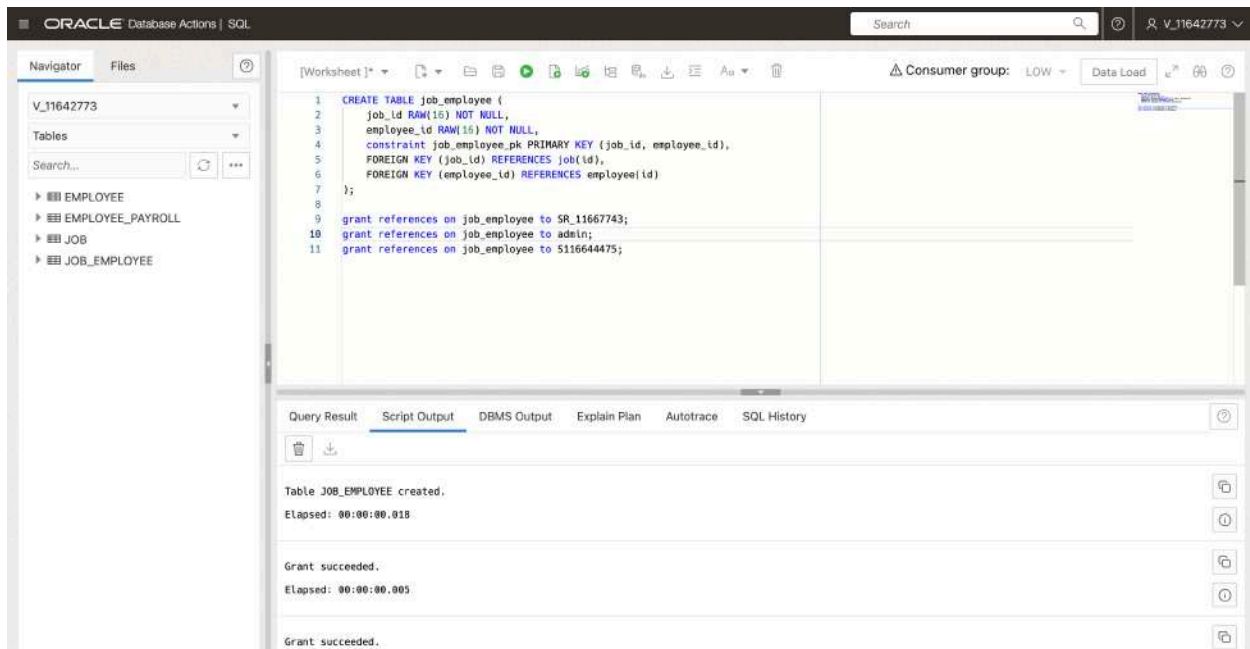


Figure-14: Created Job_employee relation table and provided grant access to remaining users.

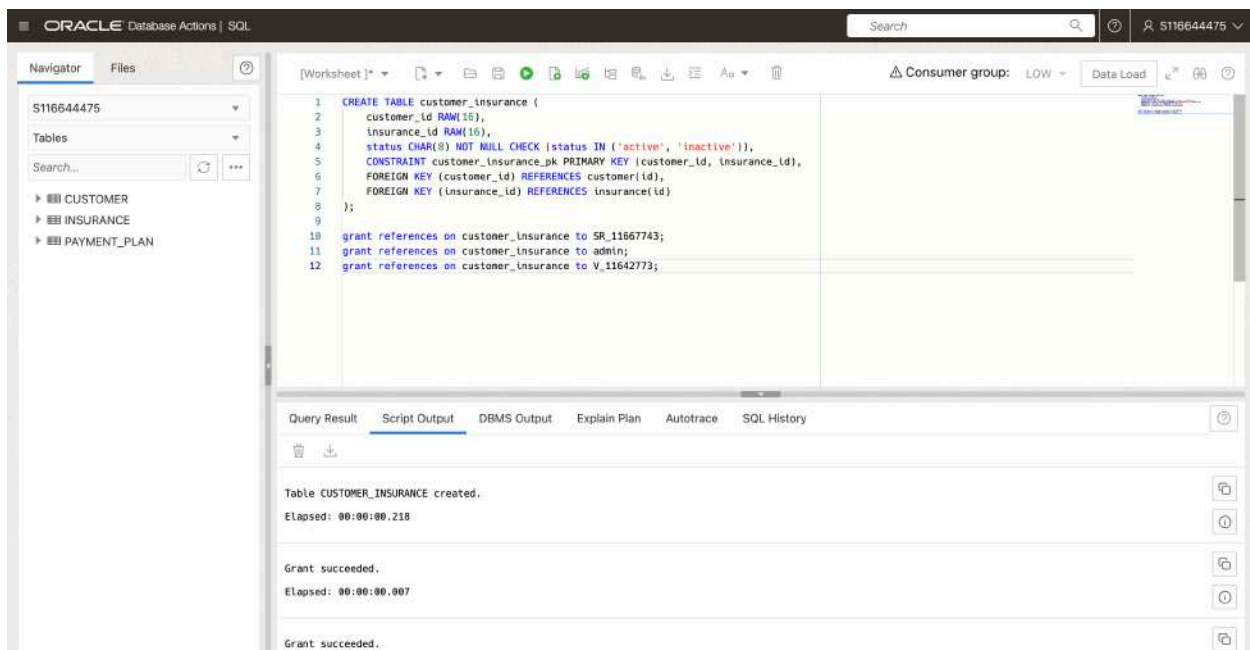


Figure-15: Created Customer_Insurance table and provided grant access to remaining users.

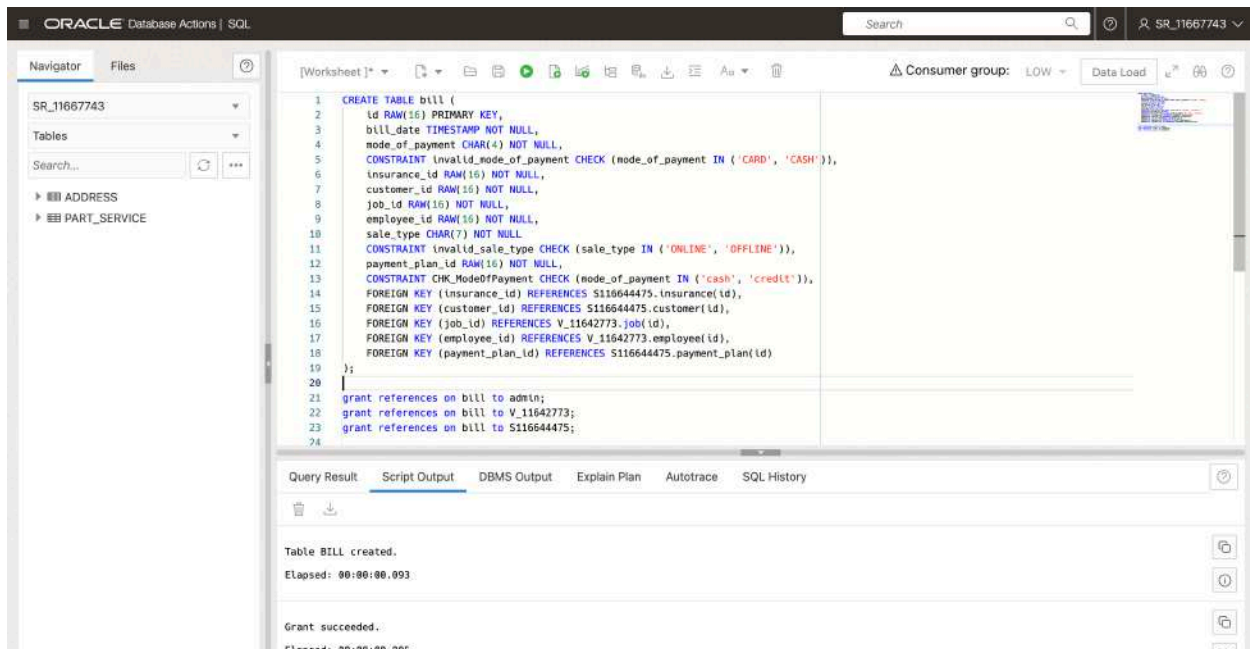


Figure-16: Created Bill table and provided grant access to remaining users.

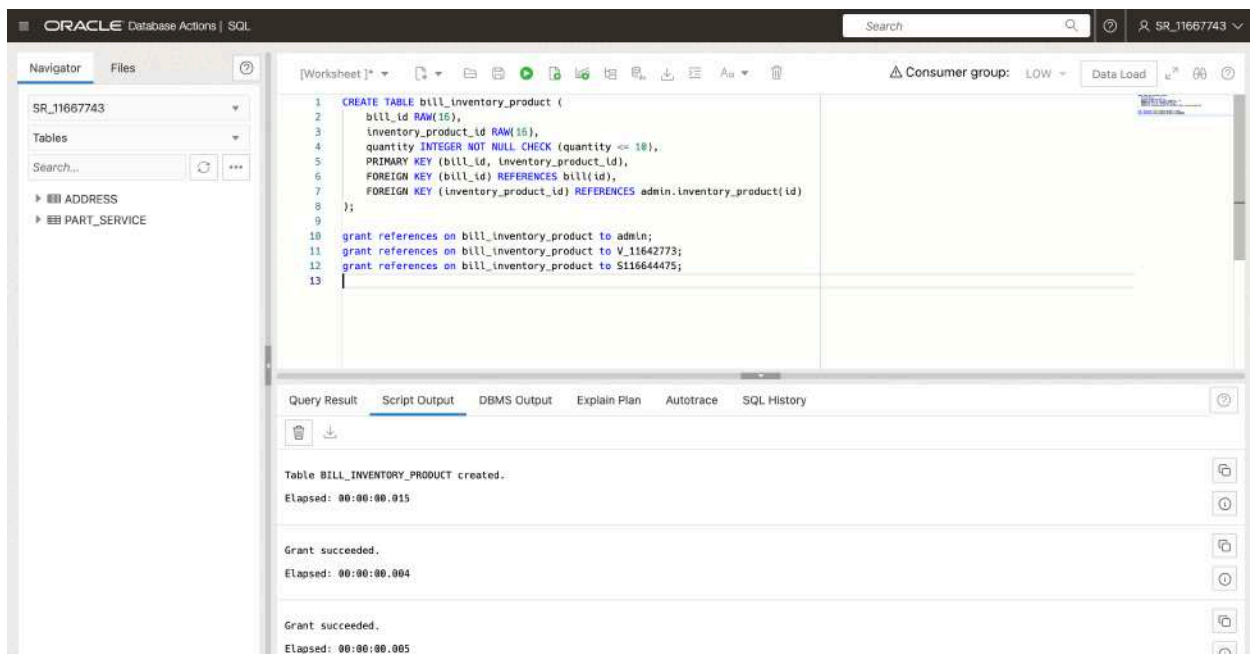


Figure-17: Created bill _inventory_product relation table and provided grant access to remaining users.

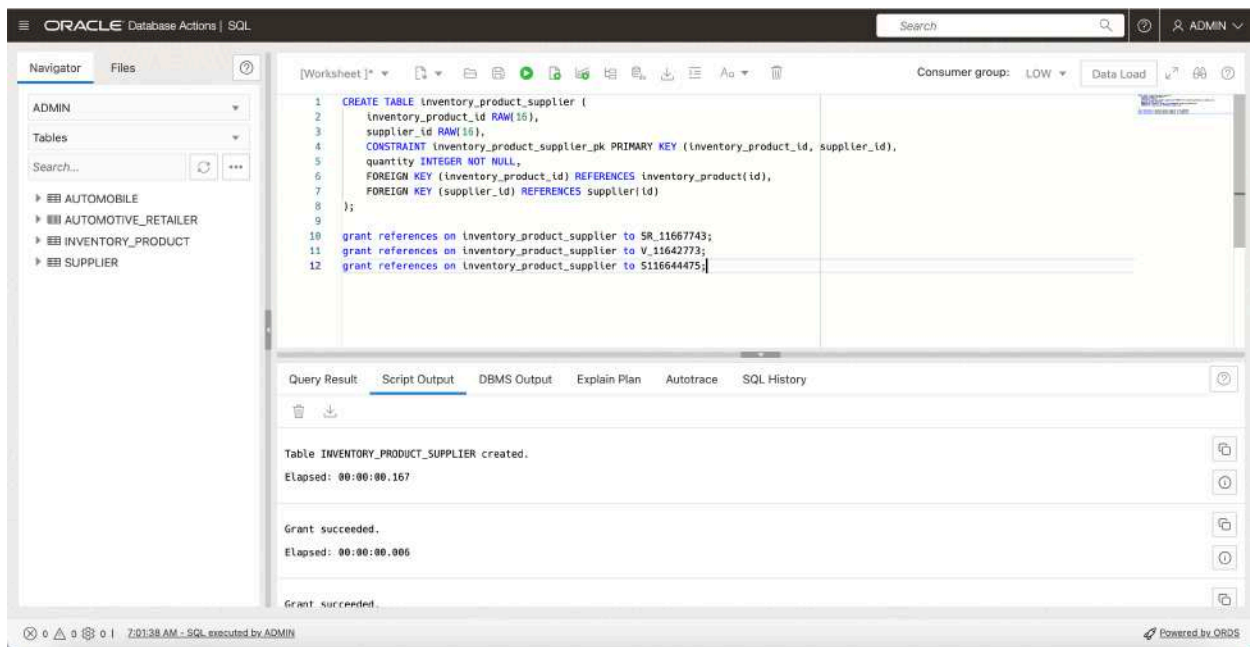


Figure-18: Created inventory_product_supplier relation table and provided grant access to remaining users.

Insertions:

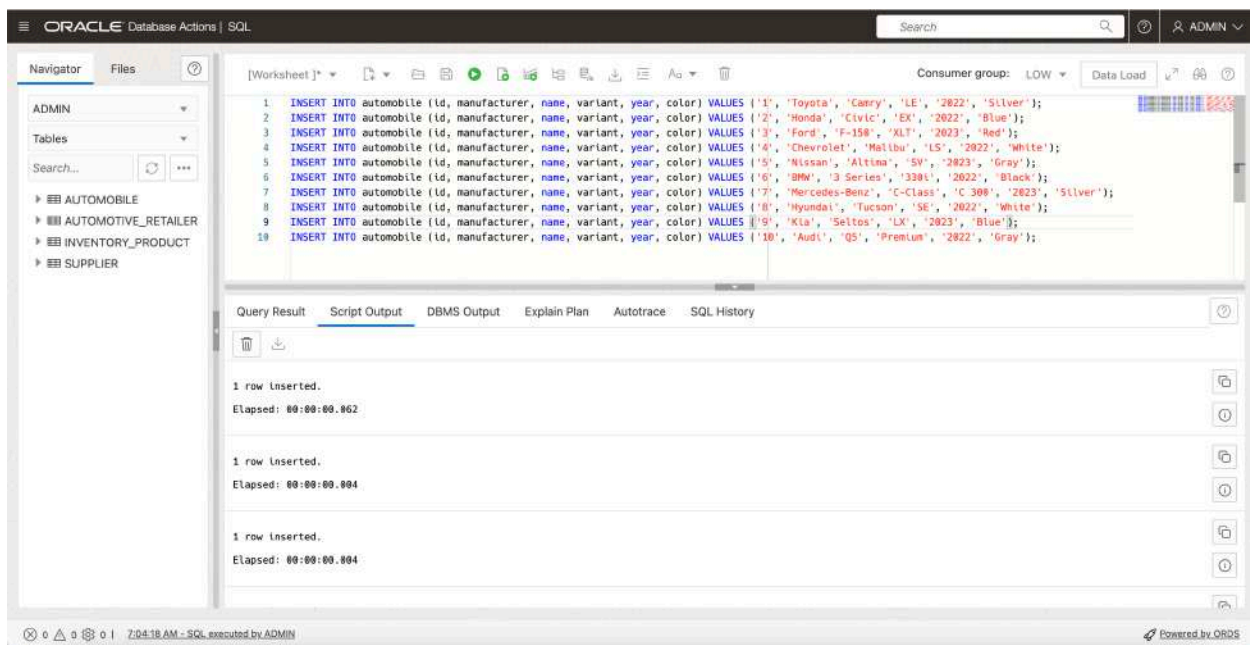


Figure-19: Inserted 10 records in automobile table.

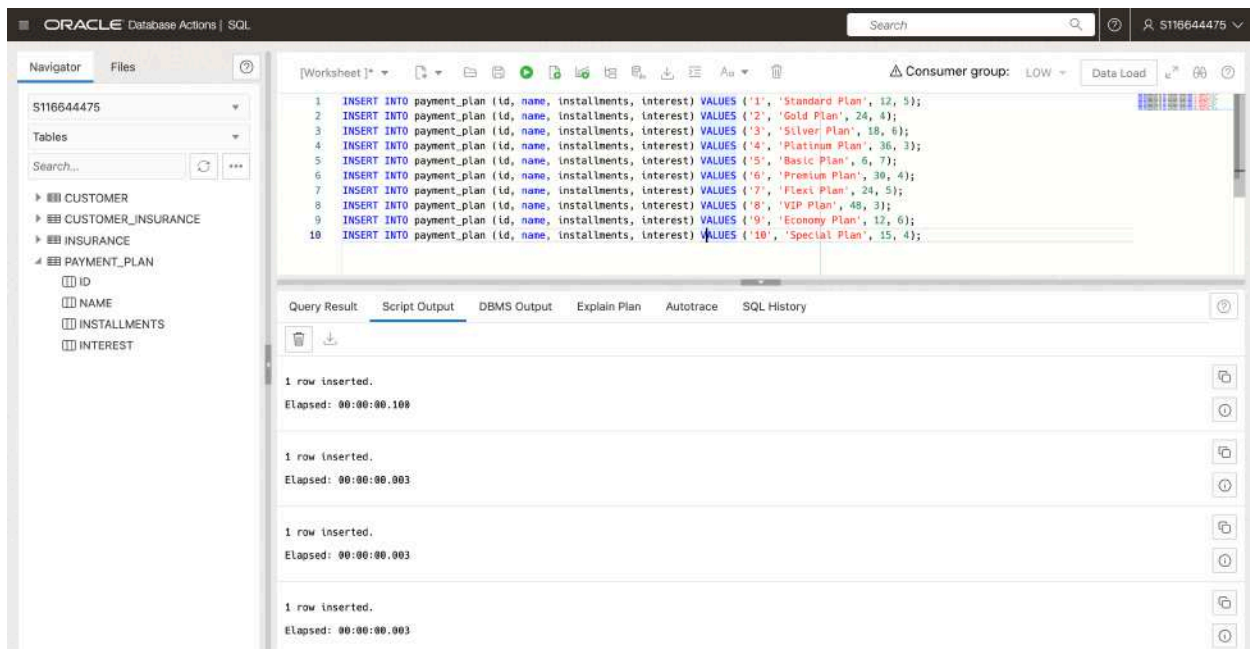


Figure-20: Inserted 10 records in payment_plan table.

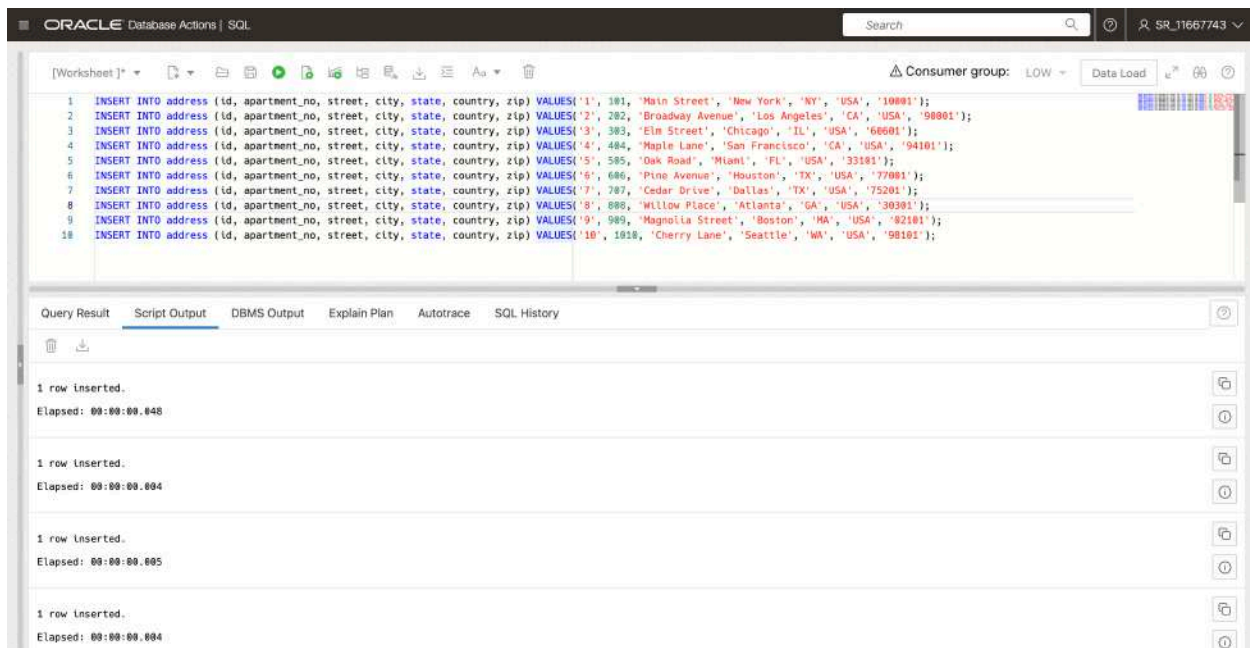


Figure-21: Inserted 10 records in address table.

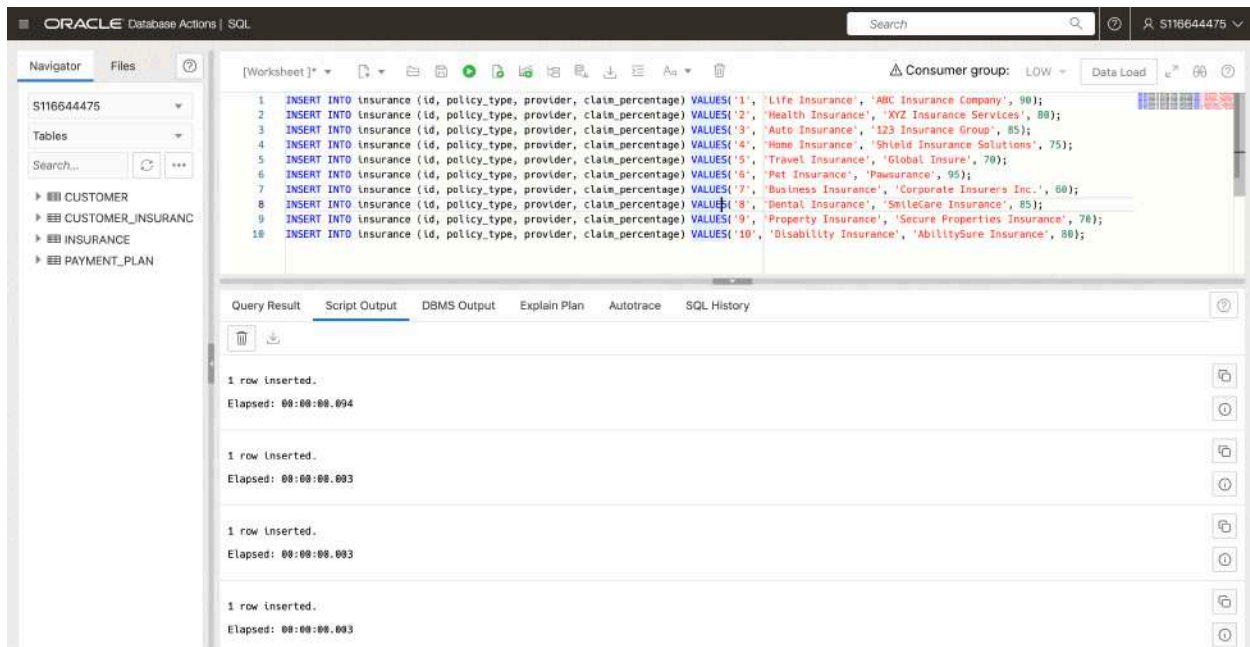


Figure-22: Inserted 10 records in insurance table.

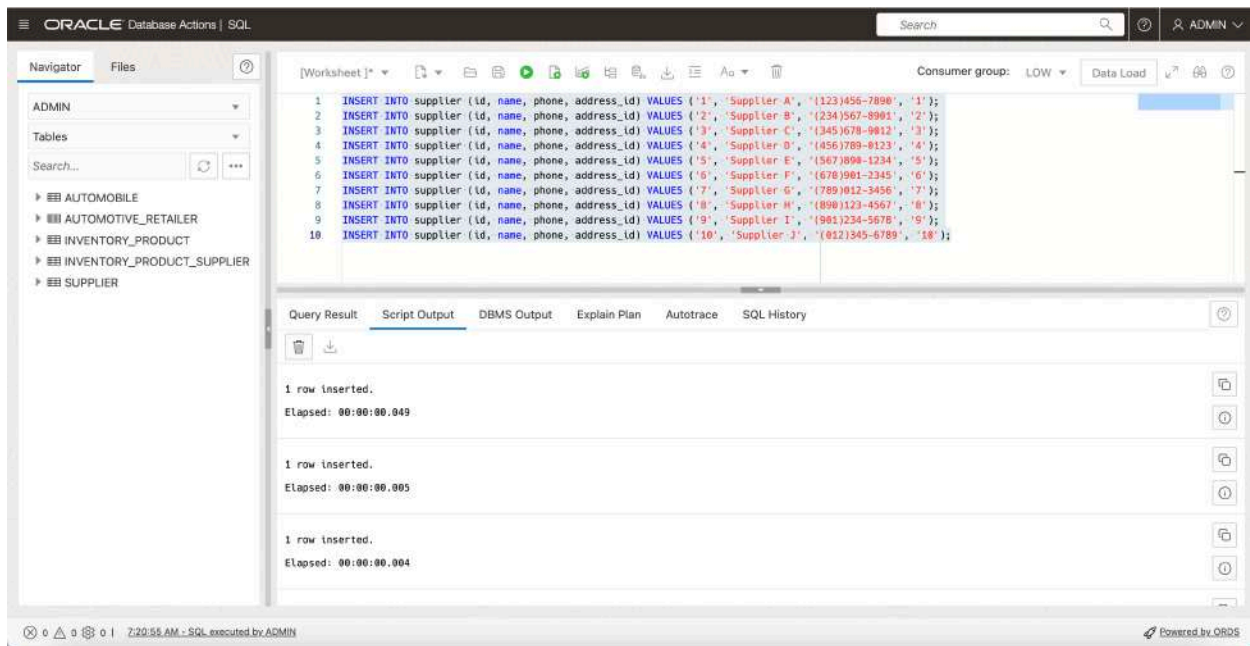


Figure-23: Inserted 10 records in supplier table.

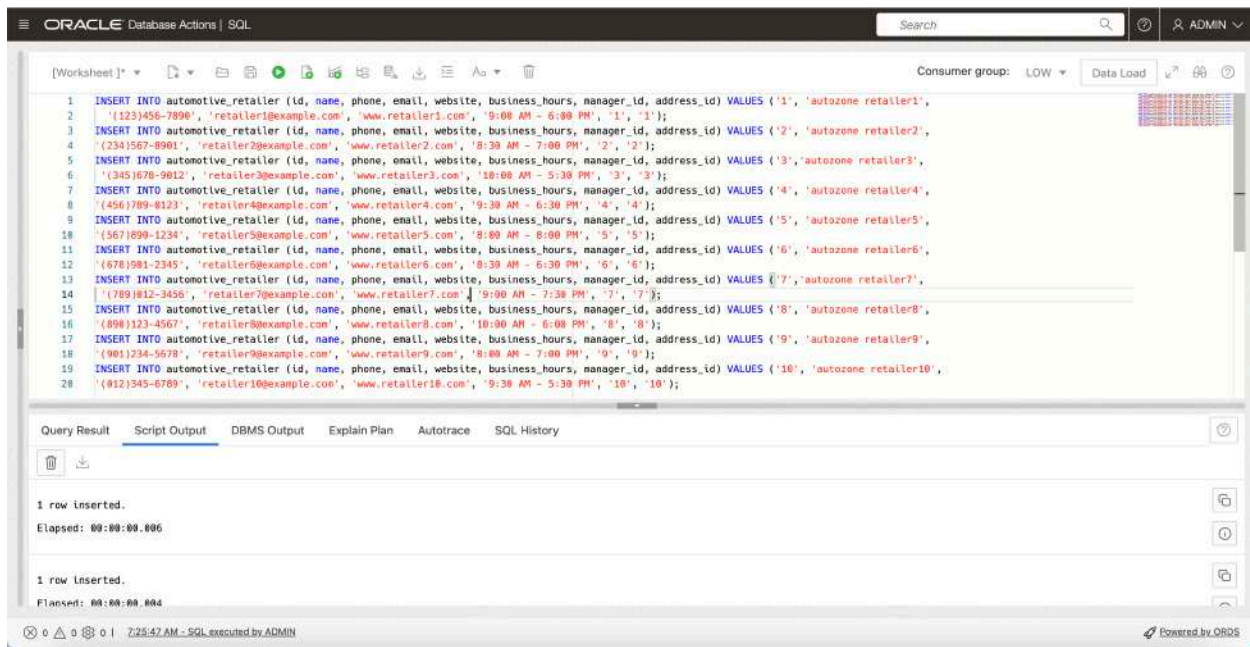


Figure-24: Inserted 10 records in automotive_retailer table.

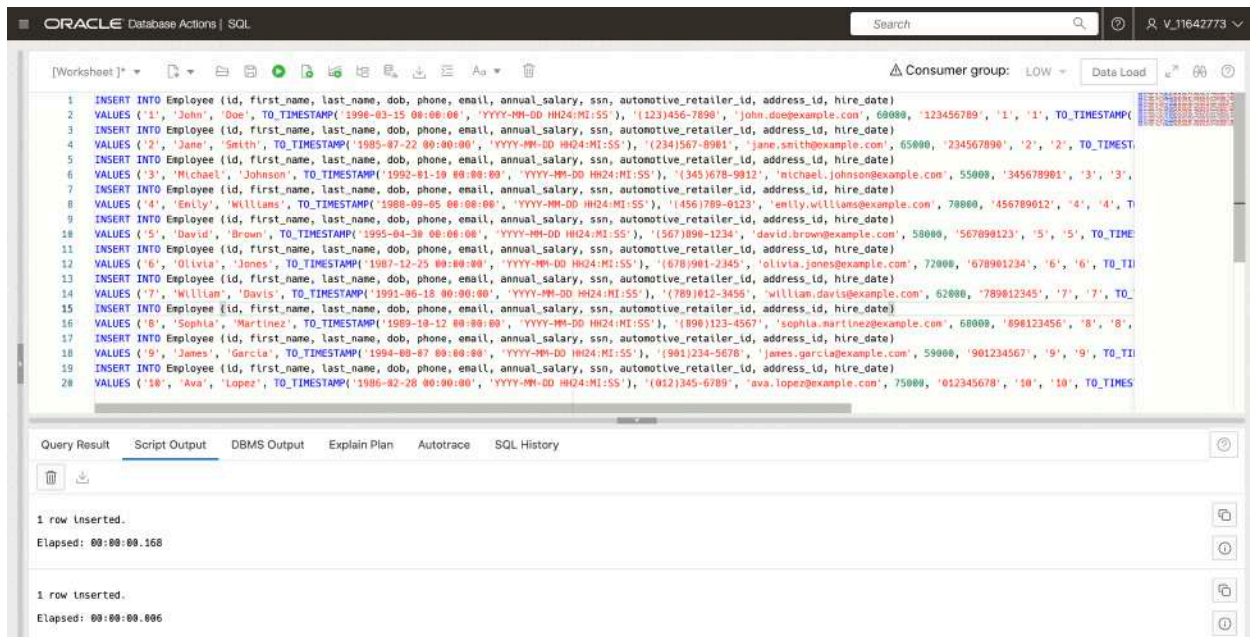


Figure-25: Inserted 10 records in employee table.

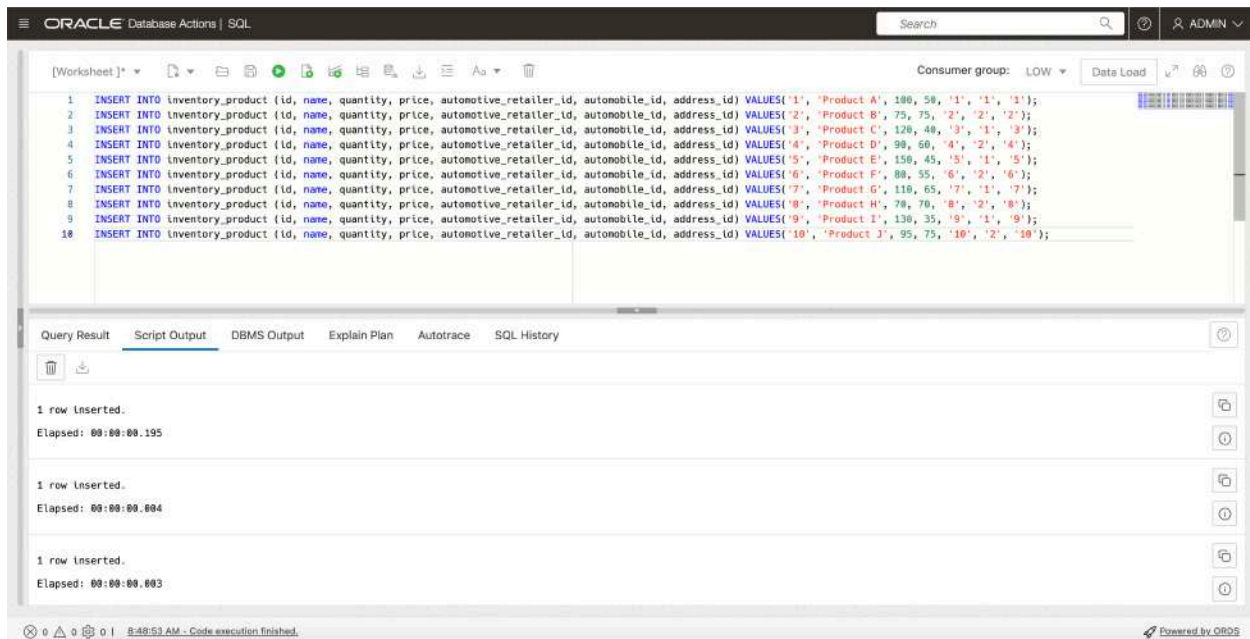


Figure-26: Inserted 10 records in inventory_product table.

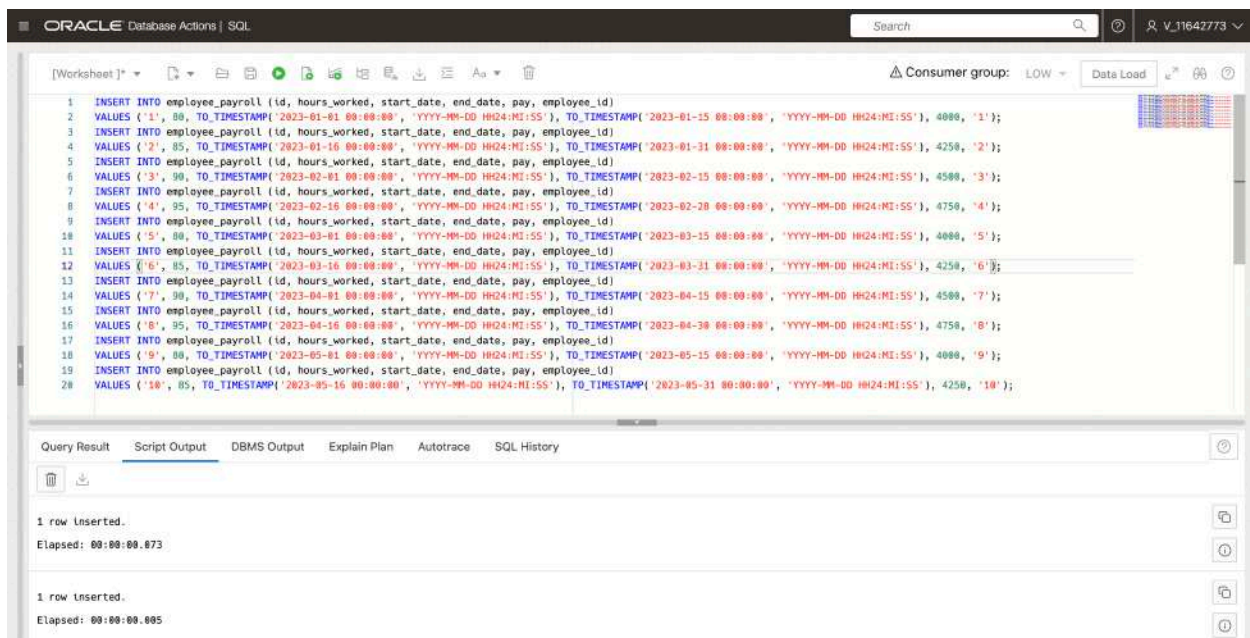


Figure-27: Inserted 10 records in employee_payroll table.

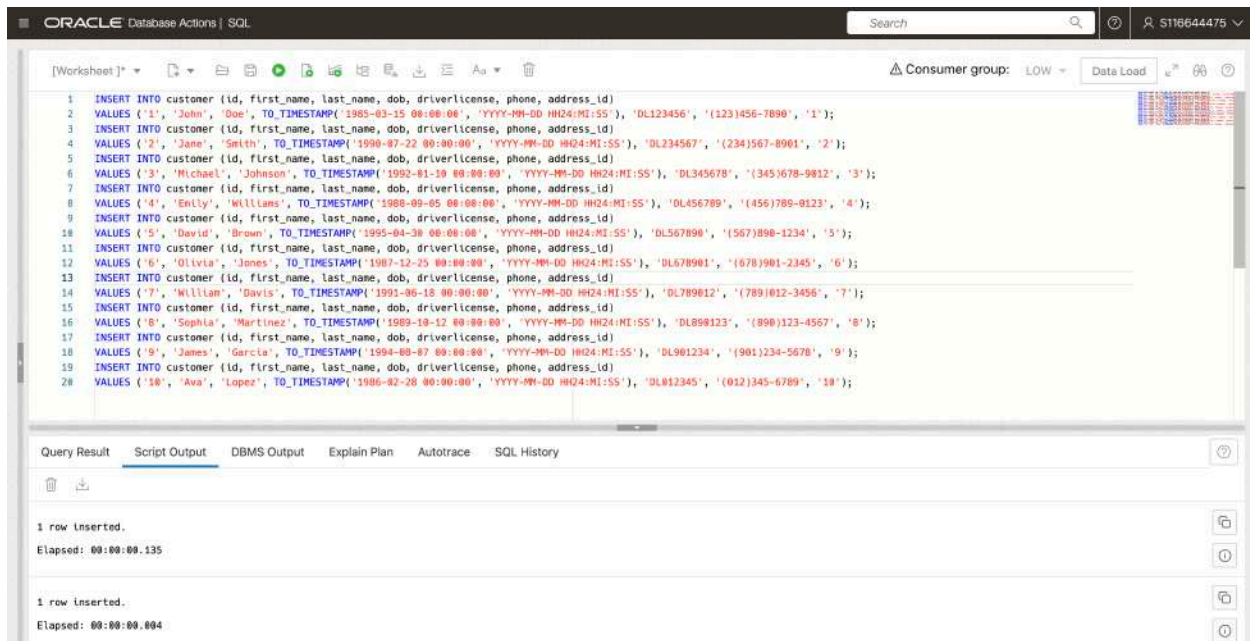


Figure-28: Inserted 10 records in customer table.

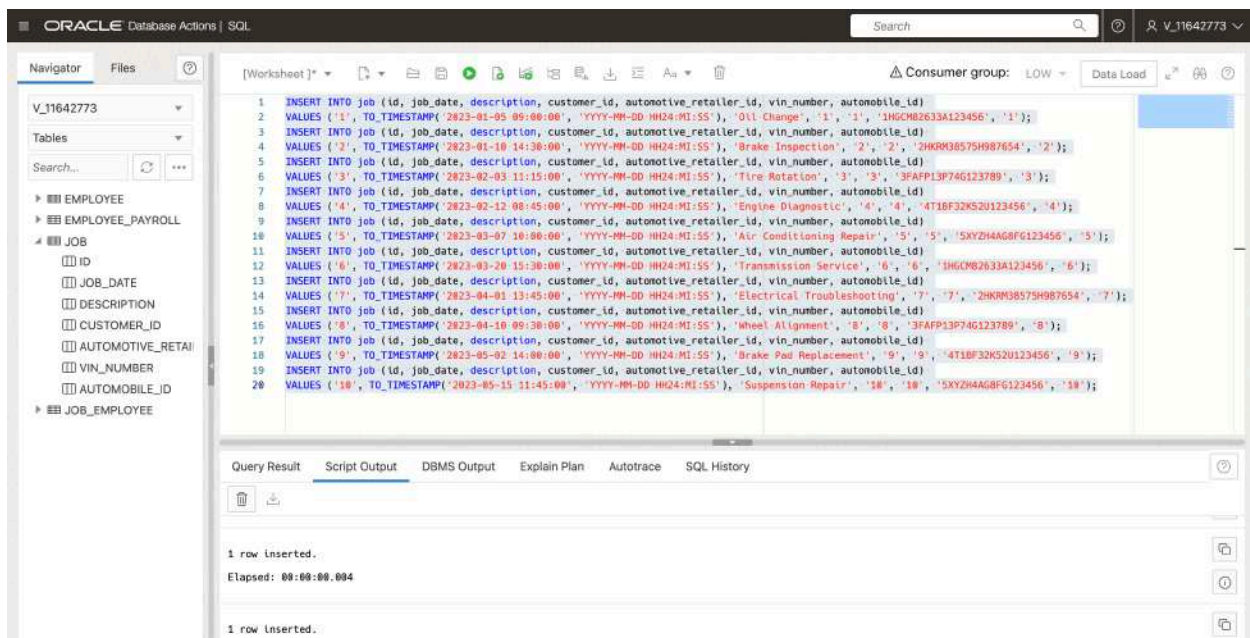


Figure-29: Inserted 10 records in job table.

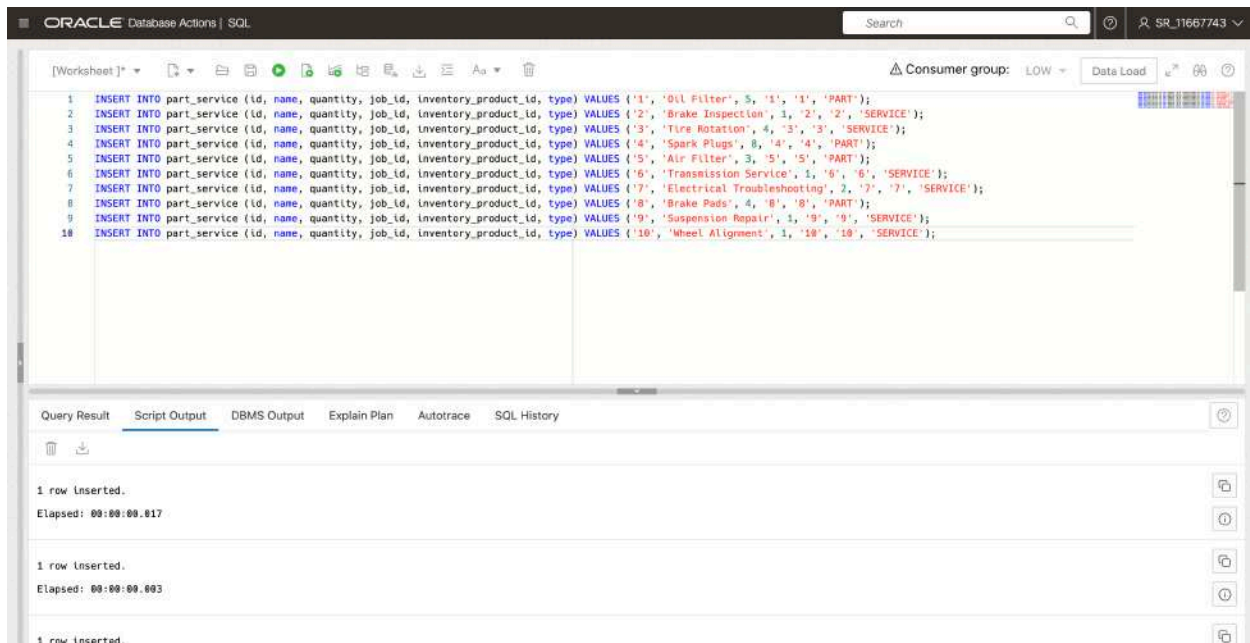


Figure-30: inserted 10 records in part_service table.

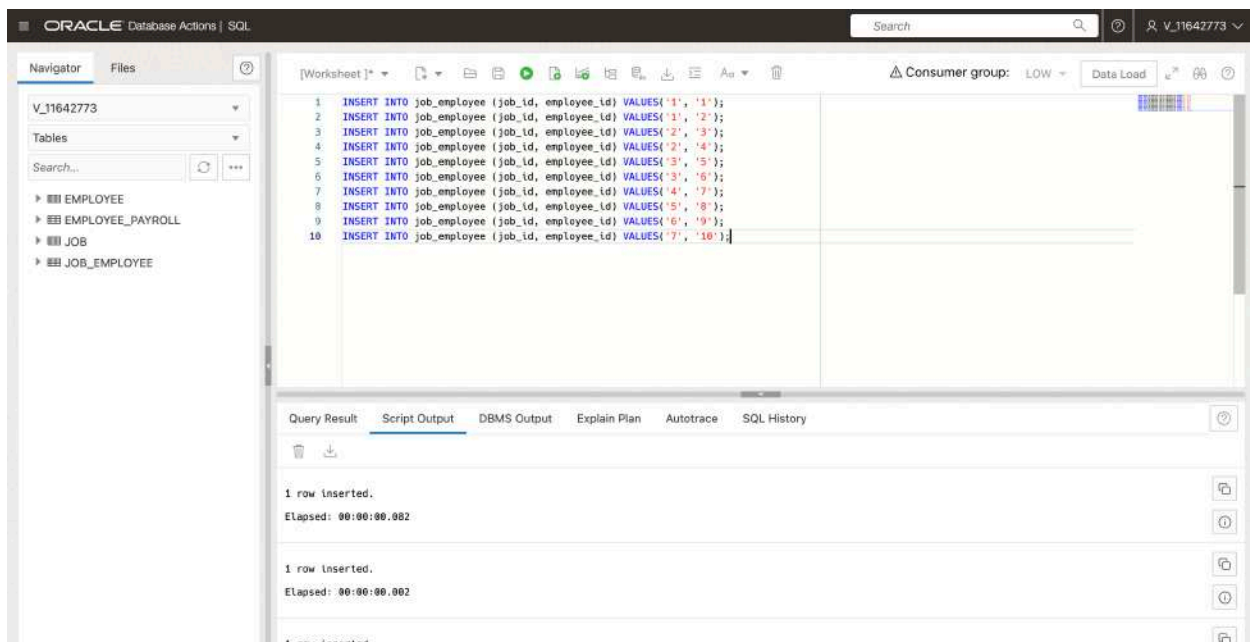


Figure-31: Inserted 10 records in job_employee table.

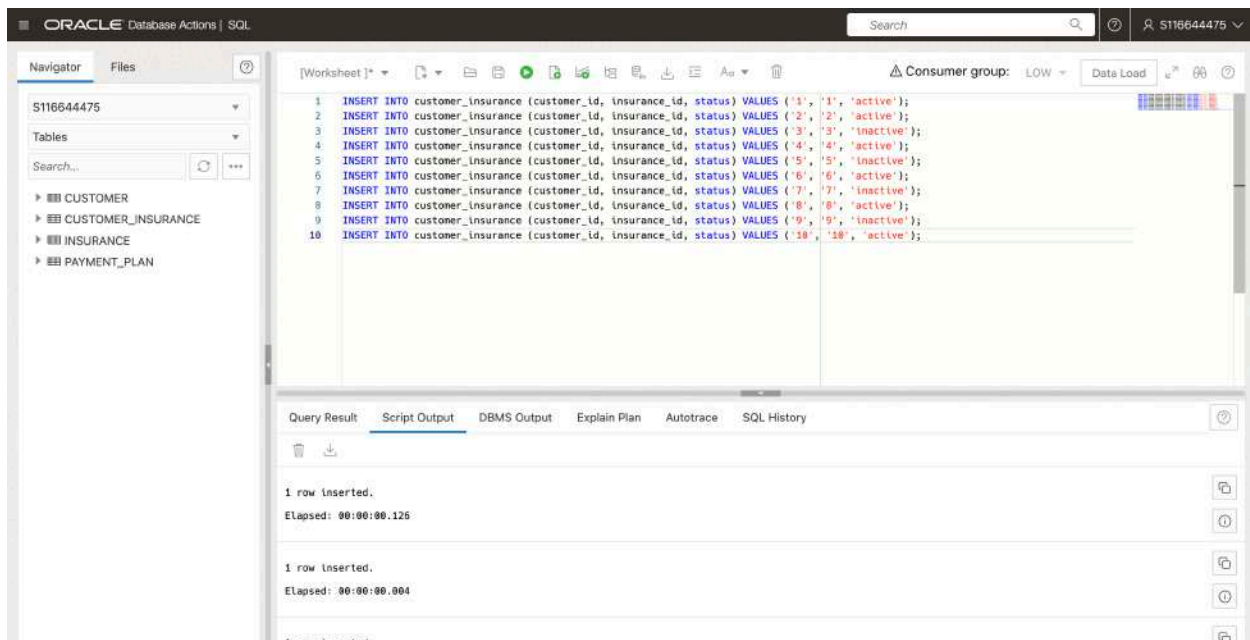


Figure-32: Inserted 10 records in Customer Insurance table.

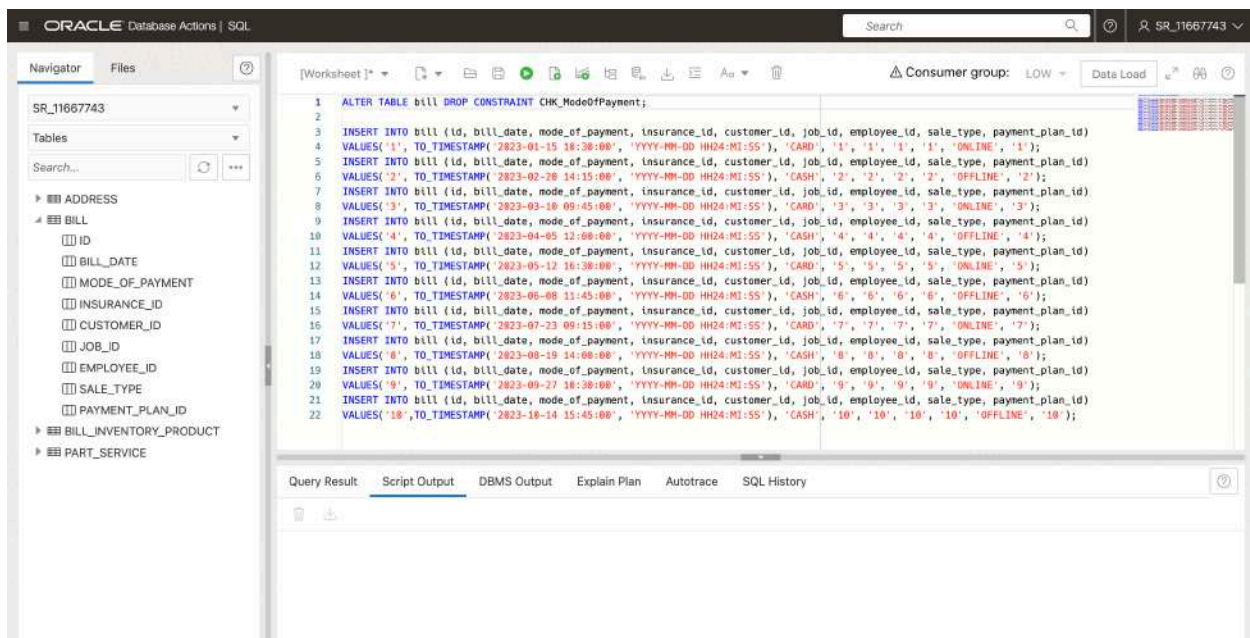


Figure-33: Dropped unnecessary constraints from bill table and inserted 10 records.

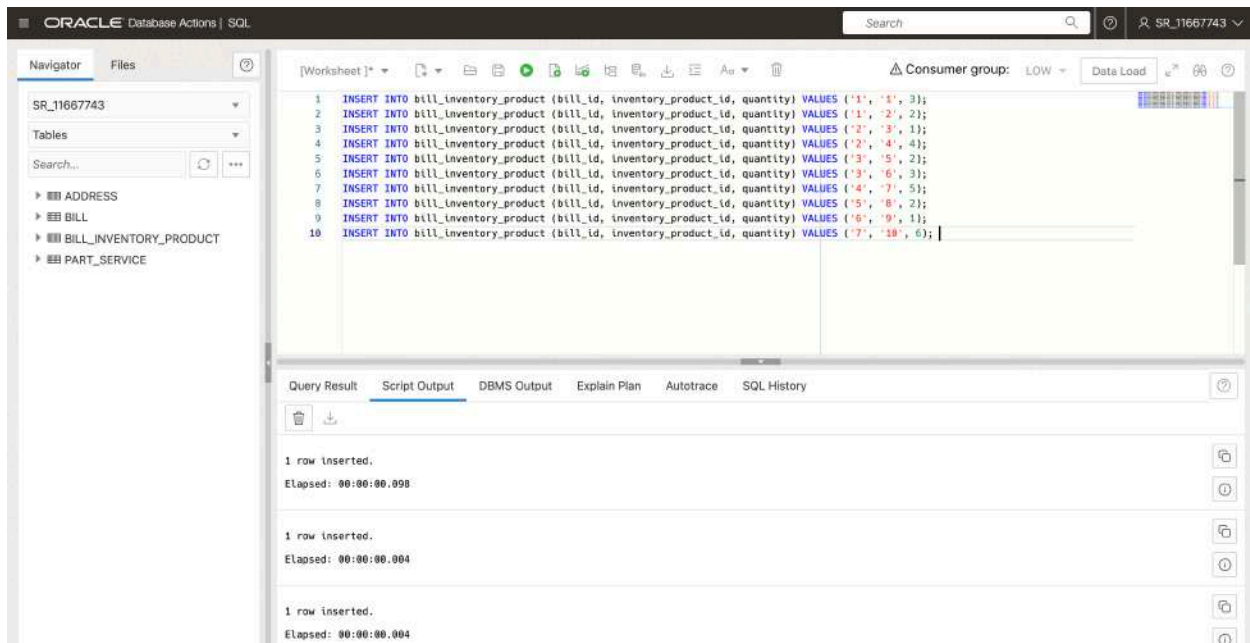


Figure-34: Inserted 10 records in bill_inventory_product table.

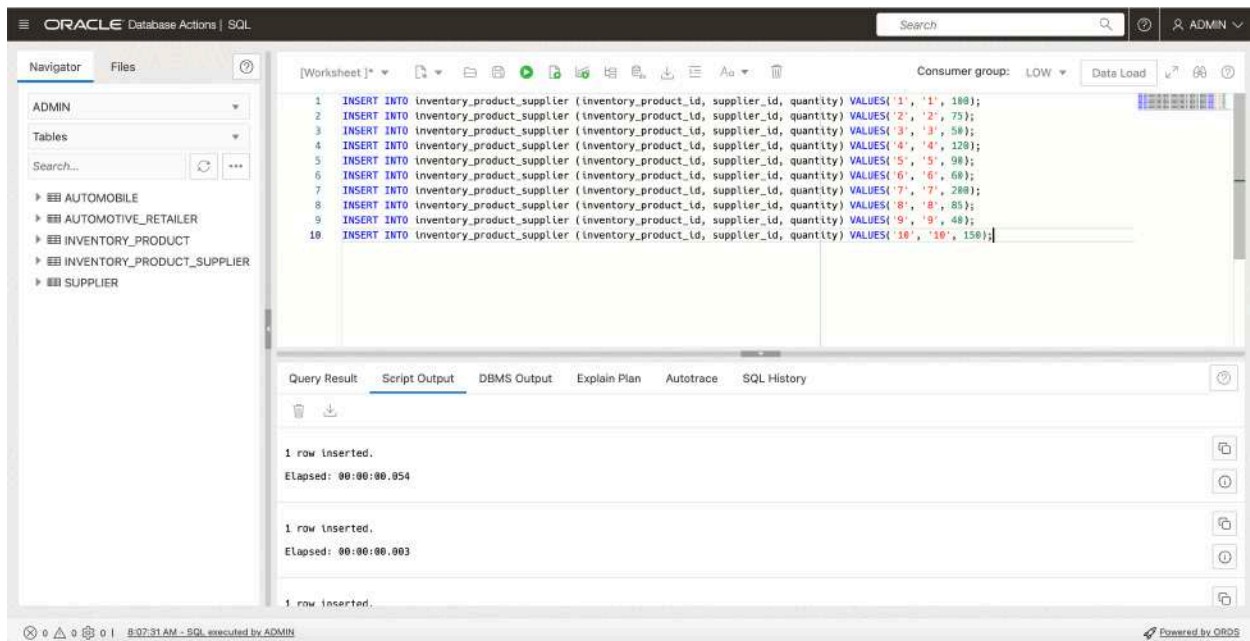


Figure-35: Inserted 10 records in inventory_product_supplier table.

Displaying the data in tables:

ORACLE

Database Actions | SQL

Search

ADMIN

Navigator

Files

ADMIN

Tables

Search...

AUTOMOBILE

AUTOMOTIVE_RETAILER

INVENTORY_PRODUCT

INVENTORY_PRODUCT_SUPPLIER

SUPPLIER

[Worksheet]*

Figure-36: Displayed data in automobile table.

ORACLE Database Actions | SQL

Search

ADMIN

Navigator

Files

ADMIN

Tables

Search...

AUTOMOBILE

AUTOMOTIVE_RETAILER

INVENTORY_PRODUCT

INVENTORY_PRODUCT_SUPPLIER

SUPPLIER

[Worksheet]*

Consumer group: LOW

Data Load

1 select * from AUTOMOTIVE_RETAILER;

Query Result

Script Output

DBMS Output

Explain Plan

Autotrace

SQL History

Download

Execution time: 0.012 seconds

	ID	NAME	PHONE	EMAIL	WEBSITE	BUSINESS_HOURS	MANAGER_ID	ADDRESS_ID
1	01	autozone retailer1	(123)456-7890	retailer1@example.c	www.retailer1.com	9:00 AM - 6:00 PM	01	01
2	02	autozone retailer2	(234)567-8901	retailer2@example.c	www.retailer2.com	8:30 AM - 7:00 PM	02	02
3	03	autozone retailer3	(345)678-9012	retailer3@example.c	www.retailer3.com	10:00 AM - 5:30 PM	03	03
4	04	autozone retailer4	(456)789-0123	retailer4@example.c	www.retailer4.com	9:30 AM - 6:30 PM	04	04
5	05	autozone retailer5	(567)890-1234	retailer5@example.c	www.retailer5.com	8:00 AM - 8:00 PM	05	05
6	06	autozone retailer6	(678)901-2345	retailer6@example.c	www.retailer6.com	8:30 AM - 6:30 PM	06	06
7	07	autozone retailer7	(789)012-3456	retailer7@example.c	www.retailer7.com	9:00 AM - 7:30 PM	07	07
8	08	autozone retailer8	(890)123-4567	retailer8@example.c	www.retailer8.com	10:00 AM - 6:00 PM	08	08
9	09	autozone retailer9	(901)234-5678	retailer9@example.c	www.retailer9.com	8:00 AM - 7:00 PM	09	09
10	10	autozone retailer10	(012)345-6789	retailer10@example.c	www.retailer10.com	9:30 AM - 5:30 PM	10	10

Powered by ORO

Figure-37: Displayed data in automotive_retailer table.

Oracle SQL Developer interface showing the query result for the `INVENTORY_PRODUCT` table. The query executed is `select * from INVENTORY_PRODUCT;`. The results are displayed in a table with 10 rows and 7 columns.

	ID	NAME	QUANTITY	PRICE	AUTOMOTIVE_RET	AUTOMOBILE_ID	ADDRESS_ID
1	01	Product A	100	50	01	01	01
2	02	Product B	75	75	02	02	02
3	03	Product C	120	40	03	01	03
4	04	Product D	90	60	04	02	04
5	05	Product E	150	45	05	01	05
6	06	Product F	80	55	06	02	06
7	07	Product G	110	65	07	01	07
8	08	Product H	70	70	08	02	08
9	09	Product I	130	35	09	01	09
10	10	Product J	95	75	10	02	10

Figure-38: Displayed data in inventory_product table.

Oracle SQL Developer interface showing the query result for the `INVENTORY_PRODUCT_SUPPLIER` table. The query executed is `select * from INVENTORY_PRODUCT_SUPPLIER;`. The results are displayed in a table with 10 rows and 3 columns.

	INVENTORY_PROD	SUPPLIER_ID	QUANTITY
1	01	01	100
2	02	02	75
3	03	03	50
4	04	04	120
5	05	05	90
6	06	06	60
7	07	07	200
8	08	08	85
9	09	09	40
10	10	10	150

Figure-39: Displayed data in inventory_product_supplier table.

Oracle Database Actions | SQL

Search

ADMIN

Tables

Search...

► AUTOMOBILE

► AUTOMOTIVE_RETAILER

► INVENTORY_PRODUCT

► INVENTORY_PRODUCT_SUPPLIER

► SUPPLIER

[Worksheet]*

Consumer group: LOW

Data Load

1 select * from SUPPLIER;

Query Result Script Output DBMS Output Explain Plan Autotrace SQL History

Download Execution time: 0.011 seconds

	ID	NAME	PHONE	ADDRESS_ID
1	01	Supplier A	(123)456-7890	01
2	02	Supplier B	(234)567-8901	02
3	03	Supplier C	(345)678-9012	03
4	04	Supplier D	(456)789-0123	04
5	05	Supplier E	(567)890-1234	05
6	06	Supplier F	(678)901-2345	06
7	07	Supplier G	(789)012-3456	07
8	08	Supplier H	(890)123-4567	08
9	09	Supplier I	(901)234-5678	09
10	10	Supplier J	(012)345-6789	10

https://j319650fc0c7030-group81f5bproject.adb.us-chicago-1.oraclecloudapps.com/ords/admin/_sda/?nav=worksheet#

Powered by ODS

Figure-40: Displayed data in supplier table.

Oracle Database Actions | SQL

Search

SR_11667743

Tables

Search...

► ADDRESS

► BILL

► BILL_INVENTORY_PRODUCT

► PART_SERVICE

[Worksheet]*

Consumer group: LOW

Data Load

1 select * from address;

Query Result Script Output DBMS Output Explain Plan Autotrace SQL History

Download Execution time: 0.007 seconds

	ID	APARTMENT_NO	STREET	CITY	STATE	COUNTRY	ZIP
1	01	101	Main Street	New York	NY	USA	10001
2	02	202	Broadway Avenue	Los Angeles	CA	USA	90001
3	03	303	Elm Street	Chicago	IL	USA	60601
4	04	404	Maple Lane	San Francisco	CA	USA	94101
5	05	505	Oak Road	Miami	FL	USA	33101
6	06	606	Pine Avenue	Houston	TX	USA	77001
7	07	707	Cedar Drive	Dallas	TX	USA	75201
8	08	808	Willow Place	Atlanta	GA	USA	30301
9	09	909	Magnolia Street	Boston	MA	USA	02101
10	10	1010	Cherry Lane	Seattle	WA	USA	98101

Figure-41: Displayed data in address table.

	ID	BILL_DATE	MODE_OF_PAYMEN	INSURANCE_ID	CUSTOMER_ID	JOB_ID	EMPLOYEE_ID	SALE_TYPE	PAYMENT_PLAN_IT
1	01	2023-01-15T10:30:00	CARD	01	01	01	01	ONLINE	01
2	02	2023-02-20T14:15:00	CASH	02	02	02	02	OFFLINE	02
3	03	2023-03-10T09:45:00	CARD	03	03	03	03	ONLINE	03
4	04	2023-04-05T12:00:00	CASH	04	04	04	04	OFFLINE	04
5	05	2023-05-12T16:30:00	CARD	05	05	05	05	ONLINE	05
6	06	2023-06-08T11:45:00	CASH	06	06	06	06	OFFLINE	06
7	07	2023-07-23T09:15:00	CARD	07	07	07	07	ONLINE	07
8	08	2023-08-19T14:00:00	CASH	08	08	08	08	OFFLINE	08
9	09	2023-09-27T10:30:00	CARD	09	09	09	09	ONLINE	09
10	10	2023-10-14T15:45:00	CASH	10	10	10	10	OFFLINE	10

Figure-42: Displayed data in bill table.

	BILL_ID	INVENTORY_PRODID	QUANTITY
1	01	01	3
2	01	02	2
3	02	03	1
4	02	04	4
5	03	05	2
6	03	06	3
7	04	07	5
8	05	08	2
9	06	09	1
10	07	10	6

Figure-43: Displayed data in bill_inventory_product table.

ORACLE Database Actions | SQL

Search

SR_11667743

Tables

Search...

ADDRESS

BILL

BILL_INVENTORY_PRODUCT

PART_SERVICE

[Worksheet] *
 1 select * from PART_SERVICE;

Consumer group: LOW
 Data Load

Query Result
 Script Output
 DBMS Output
 Explain Plan
 Autotrace
 SQL History

Download
 Execution time: 0.011 seconds

	ID	NAME	QUANTITY	JOB_ID	INVENTORY_PROD	TYPE
1	01	Oil Filter	5	01	01	PART
2	02	Brake Inspection	1	02	02	SERVICE
3	03	Tire Rotation	4	03	03	SERVICE
4	04	Spark Plugs	8	04	04	PART
5	05	Air Filter	3	05	05	PART
6	06	Transmission Service	1	06	06	SERVICE
7	07	Electrical Troubleshc	2	07	07	SERVICE
8	08	Brake Pads	4	08	08	PART
9	09	Suspension Repair	1	09	09	SERVICE
10	10	Wheel Alignment	1	10	10	SERVICE

Figure-44: Displayed data in part_service table.

ORACLE Database Actions | SQL

Search

V_11642773

[Worksheet] *
 1 select * from employee;

Consumer group: LOW
 Data Load

Query Result
 Script Output
 DBMS Output
 Explain Plan
 Autotrace
 SQL History

Download
 Execution time: 0.02 seconds

	ID	FIRST_NAME	LAST_NAME	DOB	PHONE	EMAIL	ANNUAL_SALARY	HIRE_DATE	SSN	AUTOMOTIVE_RET	A
1	01	John	Doe	1990-03-15T00:00:00	(123)456-7890	john.doe@example.c	60000	2020-05-20T09:00:00	123456789	01	C
2	02	Jane	Smith	1985-07-22T00:00:00	(234)567-8901	jane.smith@example	65000	2019-08-10T08:30:00	234567890	02	C
3	03	Michael	Johnson	1992-01-10T00:00:00	(345)678-9012	michael.johnson@ex	55000	2021-03-05T10:15:00	345678901	03	C
4	04	Emily	Williams	1988-09-05T00:00:00	(456)789-0123	emily.williams@exam	70000	2020-11-18T09:45:00	456789012	04	C
5	05	David	Brown	1995-04-30T00:00:00	(567)890-1234	david.brown@examp	58000	2021-07-12T08:00:00	567890123	05	C
6	06	Olivia	Jones	1987-12-25T00:00:00	(678)901-2345	olivia.jones@exampl	72000	2020-02-15T10:30:00	678901234	06	C
7	07	William	Davis	1991-06-18T00:00:00	(789)012-3456	william.davis@exam	62000	2019-04-05T09:15:00	789012345	07	C
8	08	Sophia	Martinez	1989-10-12T00:00:00	(890)123-4567	sophia.martinez@ex	68000	2020-09-20T08:45:00	890123456	08	C
9	09	James	Garcia	1994-08-07T00:00:00	(901)234-5678	james.garcia@exam	59000	2021-12-03T09:30:00	901234567	09	C
10	10	Ava	Lopez	1986-02-28T00:00:00	(012)345-6789	ava.lopez@example.	75000	2018-06-22T08:00:00	012345678	10	T

Figure-45: Displayed data in employee table.

ORACLE Database Actions | SQL

Search

V_11642773

Tables

Search...

EMPLOYEE

EMPLOYEE_PAYROLL

JOB

JOB_EMPLOYEE

[Worksheet] * Download Execution time: 0.01 seconds

1 `select * from EMPLOYEE_PAYROLL;`

Query Result Script Output DBMS Output Explain Plan Autotrace SQL History

	ID	HOURS_WORKED	START_DATE	END_DATE	PAY	EMPLOYEE_ID
1	01	80	2023-01-01T00:00:00Z	2023-01-15T00:00:00Z	4000	01
2	02	85	2023-01-16T00:00:00Z	2023-01-31T00:00:00Z	4250	02
3	03	90	2023-02-01T00:00:00Z	2023-02-15T00:00:00Z	4500	03
4	04	95	2023-02-16T00:00:00Z	2023-02-28T00:00:00Z	4750	04
5	05	80	2023-03-01T00:00:00Z	2023-03-15T00:00:00Z	4000	05
6	06	85	2023-03-16T00:00:00Z	2023-03-31T00:00:00Z	4250	06
7	07	90	2023-04-01T00:00:00Z	2023-04-15T00:00:00Z	4500	07
8	08	95	2023-04-16T00:00:00Z	2023-04-30T00:00:00Z	4750	08
9	09	80	2023-05-01T00:00:00Z	2023-05-15T00:00:00Z	4000	09
10	10	85	2023-05-16T00:00:00Z	2023-05-31T00:00:00Z	4250	10

Figure-46: Displayed data in employee_payroll table.

ORACLE Database Actions | SQL

Search

V_11642773

Tables

Search...

EMPLOYEE

EMPLOYEE_PAYROLL

JOB

JOB_EMPLOYEE

[Worksheet] * Download Execution time: 0.01 seconds

1 `select * from JOB;`

Query Result Script Output DBMS Output Explain Plan Autotrace SQL History

	ID	JOB_DATE	DESCRIPTION	CUSTOMER_ID	AUTOMOTIVE_RETAIL	VIN_NUMBER	AUTOMOBILE_ID
1	01	2023-01-05T09:00:00Z	Oil Change	01	01	1HGCM82633A123456	01
2	02	2023-01-10T14:30:00Z	Brake Inspection	02	02	2HKRM38575H987654	02
3	03	2023-02-03T11:15:00Z	Tire Rotation	03	03	3FAFP13P74G123789	03
4	04	2023-02-12T08:45:00Z	Engine Diagnostic	04	04	4T1BF32K52U123456	04
5	05	2023-03-07T10:00:00Z	Air Conditioning Rep	05	05	5XYZH4AG8FG123456	05
6	06	2023-03-20T15:30:00Z	Transmission Service	06	06	1HGCM82633A123456	06
7	07	2023-04-01T13:45:00Z	Electrical Troubleshc	07	07	2HKRM38575H987654	07
8	08	2023-04-10T09:30:00Z	Wheel Alignment	08	08	3FAFP13P74G123789	08
9	09	2023-05-02T14:00:00Z	Brake Pad Replacem	09	09	4T1BF32K52U123456	09
10	10	2023-05-15T11:45:00Z	Suspension Repair	10	10	5XYZH4AG8FG123456	10

Figure-47: Displayed data in jobs table.

ORACLE Database Actions | SQL

Search

V_11642773

Tables

Search...

EMPLOYEE

EMPLOYEE_PAYROLL

JOB

JOB_EMPLOYEE

[Worksheet] 1 select * from JOB_EMPLOYEE;

Consumer group: LOW Data Load

Query Result Script Output DBMS Output Explain Plan Autotrace SQL History

Download Execution time: 0.008 seconds

	JOB_ID	EMPLOYEE_ID
1	01	01
2	01	02
3	02	03
4	02	04
5	03	05
6	03	06
7	04	07
8	05	08
9	06	09
10	07	10

Figure-48: Displayed data in job_employee table.

ORACLE Database Actions | SQL

Search

S116644475

Tables

Search...

CUSTOMER

CUSTOMER_INSURANCE

INSURANCE

PAYMENT_PLAN

[Worksheet] 1 select * from CUSTOMER;

Consumer group: LOW Data Load

Query Result Script Output DBMS Output Explain Plan Autotrace SQL History

Download Execution time: 0.099 seconds

	ID	FIRST_NAME	LAST_NAME	DOB	DRIVERLICENSE	PHONE	ADDRESS_ID
1	01	John	Doe	1985-03-15T00:00:00	DL123456	(123)456-7890	01
2	02	Jane	Smith	1990-07-22T00:00:00	DL234567	(234)567-8901	02
3	03	Michael	Johnson	1992-01-10T00:00:00	DL345678	(345)678-9012	03
4	04	Emily	Williams	1988-09-05T00:00:00	DL456789	(456)789-0123	04
5	05	David	Brown	1995-04-30T00:00:00	DL567890	(567)890-1234	05
6	06	Olivia	Jones	1987-12-25T00:00:00	DL678901	(678)901-2345	06
7	07	William	Davis	1991-06-18T00:00:00	DL789012	(789)012-3456	07
8	08	Sophia	Martinez	1989-10-12T00:00:00	DL890123	(890)123-4567	08
9	09	James	Garcia	1994-08-07T00:00:00	DL901234	(901)234-5678	09
10	10	Ava	Lopez	1986-02-28T00:00:00	DL012345	(012)345-6789	10

Figure-49: Displayed data in customer table.

Oracle SQL Developer interface showing the query result for the `CUSTOMER_INSURANCE` table. The query executed is `select * from CUSTOMER_INSURANCE;`. The results are displayed in a table with 10 rows.

	CUSTOMER_ID	INSURANCE_ID	STATUS
1	01	01	active
2	02	02	active
3	03	03	inactive
4	04	04	active
5	05	05	inactive
6	06	06	active
7	07	07	inactive
8	08	08	active
9	09	09	inactive
10	10	10	active

Figure-50: Displayed data in customer_insurance table.

Oracle SQL Developer interface showing the query result for the `INSURANCE` table. The query executed is `select * from INSURANCE;`. The results are displayed in a table with 10 rows.

	ID	POLICY_TYPE	PROVIDER	CLAIM_PERCENTAGE
1	01	Life Insurance	ABC Insurance Company	90
2	02	Health Insurance	XYZ Insurance Services	80
3	03	Auto Insurance	123 Insurance Group	85
4	04	Home Insurance	Shield Insurance Solutions	75
5	05	Travel Insurance	Global Insure	70
6	06	Pet Insurance	Pawsurance	95
7	07	Business Insurance	Corporate Insurers Inc.	60
8	08	Dental Insurance	SmileCare Insurance	85
9	09	Property Insurance	Secure Properties Insurance	70
10	10	Disability Insurance	AbilitySure Insurance	80

Figure-51: Displayed data in insurance table.

ORACLE Database Actions | SQL

Search

S116644475

Navigator

Files

S116644475

Tables


Search...

CUSTOMER

CUSTOMER_INSURANCE

INSURANCE

PAYMENT_PLAN

[Worksheet] * 

Consumer group: LOW Data Load

1 select * from PAYMENT_PLAN;

Query Result Script Output DBMS Output Explain Plan Autotrace SQL History

Download Execution time: 0.009 seconds

	ID	NAME	INSTALLMENTS	INTEREST
1	01	Standard Plan	12	5
2	02	Gold Plan	24	4
3	03	Silver Plan	18	6
4	04	Platinum Plan	36	3
5	05	Basic Plan	6	7
6	06	Premium Plan	30	4
7	07	Flexi Plan	24	5
8	08	VIP Plan	48	3
9	09	Economy Plan	12	6
10	10	Special Plan	15	4

Figure-52: Displayed data in payment_plan table.