# EEI 3266 Lab 03

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## 3. Show the tables created in the database CarSales



```
1 •    SELECT * FROM carsales.carvarieties;
```

**Table: carvarieties**

**Columns:**

| car_id | varchar(10) PK |
| car_name | varchar(50) |
| car_brand | varchar(50) |
| car_model | varchar(50) |
| car_year | year |
| car_price | int |
| car_color | varchar(20) |

| car_id | car_name | car_brand | car_model | car_year | car_price | car_color |
|--------|----------|-----------|-----------|----------|-----------|-----------|
| C1 | Corolla | Toyota | Corolla | 2021 | 1300000 | Blue |
| C2 | Civic | Honda | Civic | 2021 | 2000000 | Red |
| C3 | Accord | Honda | Accord | 2023 | 3200000 | Black |
| C4 | Accord | Honda | Accord2022 | 2022 | 2500000 | Grey |
| NULL | NULL | NULL | NULL | NULL NULL | NULL |



```
1 •    SELECT * FROM carsales.dependents;
```

**Table: dependents**

**Columns:**

| dependent_id | varchar(10) PK |

| dependent_id | depen_name | depen_relation | depen_dob | depen_gender | employee_id |
|--------------|------------|----------------|-----------|--------------|-------------|
| D1 | Mary | Spouse | 1995-07-13 | Female | E002 |
| D2 | Sarah | Child | 2024-03-10 | Female | E002 |
| D3 | Sophia | Child | 2022-07-10 | Female | E005 |
| D4 | David | Spouse | 1991-10-01 | Male | E007 |
| NULL | NULL | NULL | NULL | NULL | NULL |

SCHEMAS

Filter objects

▼ 🗄 carsales
  ▼ 🗂 Tables
    ▶ 🏻 carvarieties
    ▶ 🏻 dependents
    ▶ 🏻 employees
    ▶ 🏻 sales
  🗂 Views
  🗂 Stored Procedures
  🗂 Functions

```
1 •   SELECT * FROM carsales.employees;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: 🔲

| | employee_id | emp_name | emp_position | emp_salary | emp_department | emp_joined_date |
|---|---|---|---|---|---|---|
| ▶ | E002 | Johnson | Sales Manager | 60000 | Sales | 2021-05-18 |
| | E005 | Jacqueline | Sales Rep | 40000 | Sales | 2022-06-01 |
| | E007 | Michael | Mechanic | 50000 | Maintenance | 2022-04-01 |
| ✱ | NULL | NULL | NULL | NULL | NULL | NULL |

Administration  Schemas

Information

Table: employees

Columns:
  employee_id      varcha
                   PK
  emp_name         varcha

employees 1 ✕

Apply   Revert

---

Filter objects

▼ 🗄 carsales
  ▼ 🗂 Tables
    ▶ 🏻 carvarieties
    ▶ 🏻 dependents
    ▶ 🏻 employees
    ▶ 🏻 sales
  🗂 Views
  🗂 Stored Procedures
  🗂 Functions

```
1 •   SELECT * FROM carsales.sales;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: 🔲

| | sale_id | sale_date | sale_amount | employee_id | car_id |
|---|---|---|---|---|---|
| ▶ | S1 | 2021-04-02 | 1300000 | E005 | C1 |
| | S2 | 2021-03-10 | 2000000 | E005 | C2 |
| | S3 | 2023-07-19 | 3200000 | E002 | C3 |
| ✱ | NULL | NULL | NULL | NULL | NULL |

Administration  Schemas

Information

Table: sales

Columns:
  sale_id      varchar(10)
               PK

sales 1 ✕

Apply   Revert

## 4. Display the names and positions of all employees in Sales Department

```
1    SELECT emp_name, emp_position
2    FROM Employees
3    WHERE emp_department = 'Sales';
4
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: 

| emp_name | emp_position |
|----------|--------------|
| Johnson | Sales Manager |
| Jacqueline | Sales Rep |

## 5. List the names and prices of all car varieties

```
1 •  SELECT car_name, car_price
2    FROM CarVarieties;
3
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: 

| car_name | car_price |
|----------|-----------|
| Corolla | 1300000 |
| Civic | 2000000 |
| Accord | 3200000 |
| Accord | 2500000 |

## 6. Find the names and relationships of dependents with employee id E002

```sql
1   SELECT depen_name, depen_relation
2   FROM Dependents
3   WHERE employee_id = 'E002';
4
```

| depen_name | depen_relation |
|---|---|
| Mary | Spouse |
| Sarah | Child |

## 7. Find the most expensive Car in that company

```sql
1   SELECT car_name, car_price
2   FROM CarVarieties
3   ORDER BY car_price DESC
4   LIMIT 1;
5
```

| car_name | car_price |
|---|---|
| Accord | 3200000 |

## 8. Find the total sales in 2021

```
1 •  SELECT SUM(sale_amount) AS total_sales_2021
2    FROM Sales
3    WHERE YEAR(sale_date) = 2021;
4
```

| total_sales_2021 |
|---|
| 3300000 |

## 9. If a new car is going to be added to the showroom,

## 'C4','Accord','Accord2022', 2022, 2500000,'Grey'

## Do the modifications in CarVarieties table

```
1    INSERT INTO CarVarieties (car_id, car_name, car_brand, car_model, car_year, car_price, car_color)
2    VALUES ('C4', 'Accord', 'Honda', 'Accord2022', 2022, 2500000, 'Grey');
3
```

| car_id | car_name | car_brand | car_model | car_year | car_price | car_color |
|---|---|---|---|---|---|---|
| C1 | Corolla | Toyota | Corolla | 2021 | 1300000 | Blue |
| C2 | Civic | Honda | Civic | 2021 | 2000000 | Red |
| C3 | Accord | Honda | Accord | 2023 | 3200000 | Black |
| C4 | Accord | Honda | Accord2022 | 2022 | 2500000 | Grey |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL |

## 10. Delete the details of employee with employee id E007

**Before the delete:**

```
1 • SELECT * FROM carsales.employees;
```

| employee_id | emp_name | emp_position | emp_salary | emp_department | emp_joined_date |
|---|---|---|---|---|---|
| E002 | Johnson | Sales Manager | 60000 | Sales | 2021-05-18 |
| E005 | Jacqueline | Sales Rep | 40000 | Sales | 2022-06-01 |
| E007 | Michael | Mechanic | 50000 | Maintenance | 2022-04-01 |
| NULL | NULL | NULL | NULL | NULL | NULL |

**After the delete:**

```
1 • SELECT * FROM carsales.employees;
```

| employee_id | emp_name | emp_position | emp_salary | emp_department | emp_joined_date |
|---|---|---|---|---|---|
| E002 | Johnson | Sales Manager | 60000 | Sales | 2021-05-18 |
| E005 | Jacqueline | Sales Rep | 40000 | Sales | 2022-06-01 |
| NULL | NULL | NULL | NULL | NULL | NULL |