



Politechnika Krakowska im. Tadeusza Kościuszki Wydział informatyki i telekomunikacji Katedra informatyki

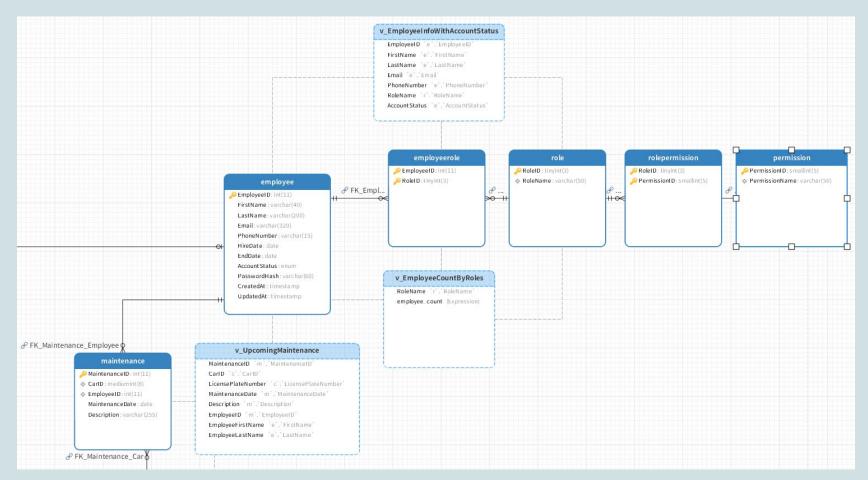
Stacjonarna wypożyczalnia samochodów

Dyląg Matylda Herczyk Wiktoria Huza Martyna

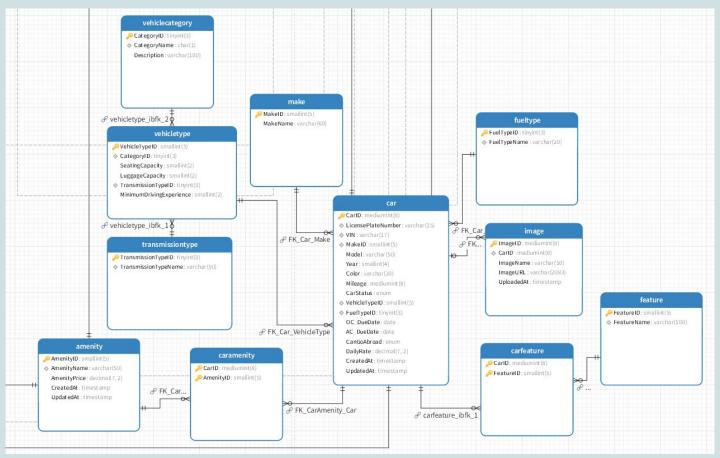
Funkcje bazy

- Zarządzanie wypożyczaniem samochodów (rezerwacja, wynajem)
- Monitorowanie stanu aut (przeglądy)
- Generowanie faktur
- Zarządzanie historią wypożyczeń
- Rejestr dodatkowych udogodnień i dodatków dla poszczególnych samochodów
- Przechowywanie informacji o klientach, samochodach i pracownikach
- Dynamiczne dodawanie ról pracowników

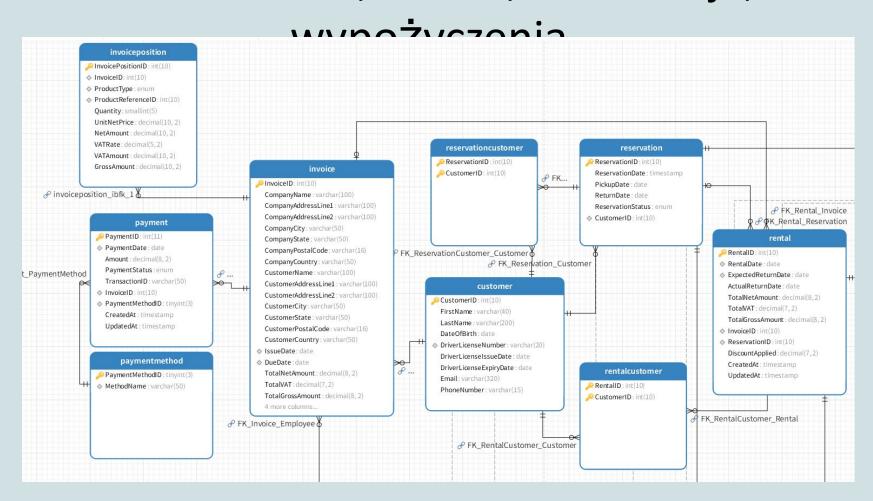
ERD - pracownicy, role, przeglądy



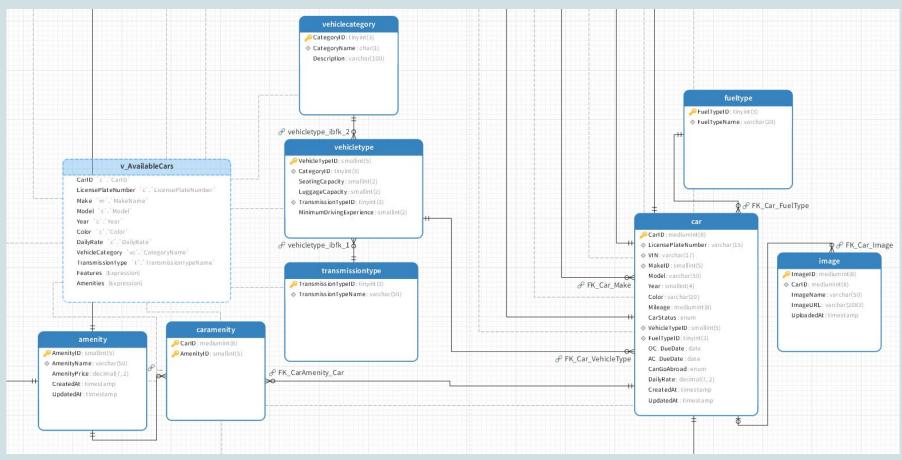
ERD - samochody i udogodnienia



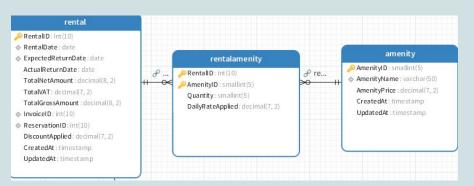
ERD - faktura, kilenci, rezerwacje,



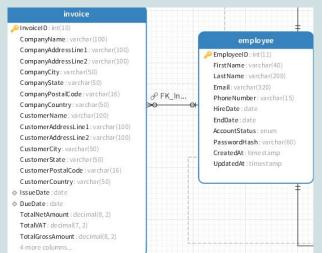
ERD - samochody i udogodnienia



Relacje

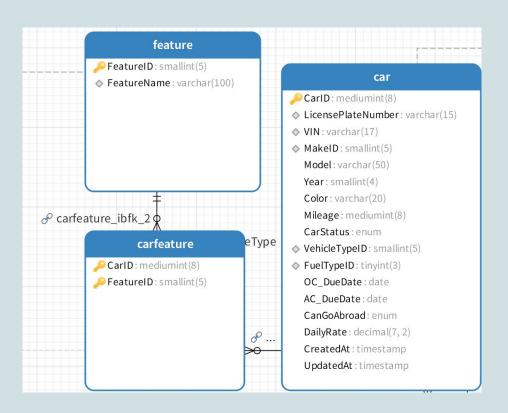


many to many



zero or one to many

Relacje



one and only one to zero or many

Najciekawsze widoki

Pracownicy z statusem konta

```
CREATE VIEW AS

SELECT

'e'.'EmployeeID' AS 'EmployeeID',
'e'.'FirstName' AS 'FirstName',
'e'.'LastName' AS 'LastName',
'e'.'Email' AS 'Email',
'e'.'PhoneNumber' AS 'PhoneNumber',
'r'.'RoleName' AS 'RoleName',
'e'.'AccountStatus' AS 'AccountStatus'

FROM ((
'employee' 'e'

JOIN 'employeerole' 'er'

ON ('e'.'EmployeeID' = 'er'.'EmployeeID'))

JOIN 'role' 'r'

ON ('r'.'RoleID' = 'er'.'RoleID'))

GORDER BY
```

EmployeeID	FirstName	LastName	Email	PhoneNumber	RoleName	Accou ORDER BY	
12	Dorota	Mazur	dorota.mazur@example.c	512 345 678	Koordynator ds. wynajmu	Aktywi e . AccountSt	catus
4	Katarzyna	Wójcik	katarzyna.wojcik@examp	504 567 890	Pracownik biura wynajmu	Aktywne	
8	Agnieszka	Krawczyk	agnieszka.krawczyk@exar	508 901 234	Koordynator ds. wynajmu	Aktywne	
3	Tomasz	Wiśniewski	tomasz.wisniewski@exam	503 456 789	Pracownik biura wynajmu	Aktywne	
10	Paulina	Wojciechowska	paulina.wojciechowska@e	510 123 456	Specjalista ds. marketingı	Aktywne	
7	Michał	Szymański	michal.szymanski@exam	507 890 123	Koordynator ds. wynajmu	Aktywne	
13	Łukasz	Zając	lukasz.zajac@example.co	513 456 789	Mechanik	Aktywne	
9	Krzysztof	Dąbrowski	krzysztof.dabrowski@exa	509 012 345	Specjalista ds. marketingı	Aktywne	
1	Marek	Kowalczyk	marek.kowalczyk@examp	501 234 567	Dyrektor Generalny CEO	Aktywne	
11	Jacek	Pawlak	jacek.pawlak@example.cc	511 234 567	Mechanik	Aktywne	
14	Ewa	Pietrzak	ewa.pietrzak@example.cc	514 567 890	Pracownik biura wynajmu	Aktywne	
15	Bartek	Górski	bartek.gorski@example.co	515 678 901	Księgowy	Aktywne	
6	Małgorzata	Zielińska	malgorzata.zielinska@exa	506 789 012	Pracownik biura wynajmu	Aktywne	
2	Anna	Nowak	anna.nowak@example.co	502 345 678	Księgowy	Aktywne	
5	Piotr	Lewandowski	piotr.lewandowski@exam	505 678 901	Pracownik biura wynajmu	Aktywne	

Najciekawsze widoki

Miesięczne zarobki

Year	Month	TotalRevenue		
2024	11	926,90		
2024	9	553,50		
2024	1	2029,50		

```
CREATE VIEW `v RevenueByMonth` AS
SELECT
 YEAR (`r`.`RentalDate`) AS `Year`,
MONTH (`r`.`RentalDate`) AS `Month`,
sum(`r`.`TotalGrossAmount`) AS `TotalRevenue`
FROM
 `rental` `r`
GROUP BY
 YEAR (`r`.`RentalDate`),
 MONTH (`r`.`RentalDate`)
ORDER BY
 YEAR (`r`.`RentalDate`) DESC,
 MONTH (`r`.`RentalDate`) DESC
```

Najciekawsze widoki

Najpopularniejsze auta

```
CREATE VIEW `v PopularCars` AS
SELECT
  `c`.`CarID` AS `CarID`,
 `c`.`LicensePlateNumber` AS `LicensePlateNumber`,
  `m`.`MakeName` AS `Make`,
  `c`.`Model` AS `Model`,
 count(`rc`.`RentalID`) AS `TimesRented`
FROM ((
  `car` `c`
   LEFT JOIN `make` `m` ON (`c`.`MakeID` = `m`.`MakeID`))
    LEFT JOIN `rentalcar` `rc` ON (`c`.`CarID` = `rc`.`CarID`))
GROUP BY
  `c`.`CarID`,
  `c`.`LicensePlateNumber`.
 `m`.`MakeName`,
 `c`.`Model`
ORDER BY
  count(`rc`.`RentalID`) DESC
```

	CarlD	LicensePlate	Make	Model	TimesRented	
ı	14	POZ99999	Renault	Clio		1
	15	LOD10101	Toyota	Yaris		1
	1	KRA12345	Toyota	Corolla		1
	8	GDA33333	Honda	Civic		1
	9	SZC44444	Hyundai	i30		0
	10	KAT55555	Peugot	208		0
	11	KRK66666	Nissan	Qashqai		0
	12	WAW77777	Kia	Sportage		0
	13	GD88888	Mazda	CX-5		0
	16	GDA20202	Ford	Focus		0
	17	SZC30303	Vauxhall	Astra		0
	2	KRK98765	Ford	Fiesta		0
	18	KAT40404	BMW	3 Series		0
	3	WAW54321	BMW	X5		0
	19	KRK50505	Mercedes-	E-Class		0
	4	GD12345	Audi	A4		0
	20	WAW60606	Audi	Q5		0
	5	WRO67890	(Null)	C-Class		0
	6	POZ11111	Volkswage	Golf		0
	7	LOD22222	Skoda	Octavia		0

Najciekawsze funkcje - sprawdzanie dostępności auta

```
1 ☐ CREATE FUNCTION `IsCarAvailable`(input CarID INT,
        input_StartDate DATE,
        input EndDate DATE
4 L) RETURNS varchar(20) CHARSET utf8mb4 COLLATE utf8mb4 uca1400 ai ci
        DETERMINISTIC
 6 BEGIN
        DECLARE rental conflict INT DEFAULT 0;
8
        DECLARE reservation_conflict INT DEFAULT 0;
        DECLARE car exists INT DEFAULT 0;
9
10
        SELECT COUNT(*) INTO car exists FROM car WHERE CarID = input CarID;
12
        IF car exists = 0 THEN RETURN 'Car Not Found';
        END IF:
14 -
        SELECT COUNT(*)
16
        INTO rental_conflict
        FROM rental r
19
        JOIN rentalcar rc ON r.RentalID = rc.RentalID
20
        WHERE rc.CarID = input CarID
          AND ( (input StartDate BETWEEN r.RentalDate AND COALESCE(r.ActualReturnDate, r.ExpectedReturnDate)) OR
22
                (input EndDate BETWEEN r.RentalDate AND COALESCE(r.ActualReturnDate, r.ExpectedReturnDate)) OR
                (r.RentalDate BETWEEN input StartDate AND input EndDate));
24
        SELECT COUNT(*)
26
        INTO reservation conflict
27
        FROM reservation res
        JOIN reservationcar rc ON res.ReservationID = rc.ReservationID
29
        WHERE rc.CarID = input CarID
30
          AND res.ReservationStatus = 'Active'
          AND ( (input StartDate BETWEEN res.PickupDate AND res.ReturnDate) OR
                (input EndDate BETWEEN res.PickupDate AND res.ReturnDate) OR
32
                (res.PickupDate BETWEEN input StartDate AND input EndDate));
34
        IF rental conflict > 0 OR reservation conflict > 0 THEN RETURN 'Not Available';
        ELSE RETURN 'Available':
36
        END IF;
38 FND
```

Najciekawsze funkcje - oblicz zniżkę

```
1 CREATE FUNCTION `CalculateDiscountAmount` (RentalStartDate DATE,
        ExpectedReturnDate DATE,
        TotalNetAmount DECIMAL(8,2)
    ) RETURNS decimal(7.2)
        DETERMINISTIC
 6 - BEGIN
        DECLARE RentalDays INT;
        DECLARE DiscountAmount DECIMAL(5,2) DEFAULT 0.00;
 8
 9
        SET RentalDays = DATEDIFF(ExpectedReturnDate, RentalStartDate) + 1;
10
11
12
        SELECT DiscountPercentage INTO DiscountAmount
13
        FROM discount
        WHERE RentalDays BETWEEN MinRentalDays AND MaxRentalDays
14
15
        OR (MaxRentalDays IS NULL AND MinRentalDays <= RentalDays)
        ORDER BY MinRentalDays DESC
16
17
        LIMIT 1:
18
19 -
        TE DiscountAmount TS NULL THEN
20
            SET DiscountAmount = 0.00;
21
        END IF;
22
23
        RETURN ROUND(TotalNetAmount * DiscountAmount / 100, 2);
24
    END
```

```
1 ☐ CREATE DEFINER=`huza martyna`@`%` PROCEDURE `GenerateInvoiceWithAddresses`(
      IN input RentalID INT UNSIGNED,
      IN input VATRate DECIMAL(5, 2).
      IN input InvoiceStatus VARCHAR(6) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci, # Paid or Unpaid but enum
    is not allowed so varchar it
      IN input CompanyName VARCHAR(100) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci,
      IN input CompanyAddressLine1 VARCHAR(100) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci,
      IN input CompanyAddressLine2 VARCHAR(100) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci,
      IN input CompanyCity VARCHAR(50) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci,
      IN input CompanyState VARCHAR(50) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci,
      IN input CompanyPostalCode VARCHAR(16) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci.
10
11
      IN input CompanyCountry VARCHAR(50) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci,
12
      IN input CustomerID INT UNSIGNED,
      IN input CustomerAddressLine1 VARCHAR(100) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci,
13
      IN input CustomerAddressLine2 VARCHAR(100) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci.
14
      IN input CustomerCity VARCHAR(50) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci,
      IN input CustomerState VARCHAR(50) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci,
16
      IN input CustomerPostalCode VARCHAR(16) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci.
17
18
      IN input CustomerCountry VARCHAR(50) CHARACTER SET utf8mb4 COLLATE utf8mb4 uca1400 ai ci
19 -)
20 BEGIN
      DECLARE new InvoiceID INT UNSIGNED:
22
      DECLARE invoice total net DECIMAL(8, 2) DEFAULT 0.00;
      DECLARE invoice_total_vat DECIMAL(7, 2) DEFAULT 0.00;
23
      DECLARE invoice total gross DECIMAL(8, 2) DEFAULT 0.00;
25
26
      # Validate InvoiceStatus input
      IF input_InvoiceStatus NOT IN ('Paid', 'Unpaid') THEN
        SIGNAL SOLSTATE '45000'
28
29
        SET MESSAGE TEXT = 'Invalid InvoiceStatus value. Must be "Paid" or "Unpaid".';
30
      END IF;
      SET SESSION TRANSACTION ISOLATION LEVEL REPETABLE READ;
32
      START TRANSACTION:
```

```
35
      # Create the invoice
      INSERT INTO invoice (
37
       CompanyName, CompanyAddressLine1, CompanyAddressLine2,
38
        CompanyCity, CompanyState, CompanyPostalCode, CompanyCountry,
        CustomerName, CustomerAddressLine1, CustomerAddressLine2,
39
40
        CustomerCity, CustomerState, CustomerPostalCode, CustomerCountry,
        CustomerID, IssueDate, DueDate, InvoiceStatus
41
42
43
      SELECT
        input CompanyName, input CompanyAddressLine1, input CompanyAddressLine2,
45
        input CompanyCity, input CompanyState, input CompanyPostalCode, input CompanyCountry,
        CONCAT(c.FirstName, ' ', c.LastName) AS CustomerName,
46
47
        input CustomerAddressLine1, input CustomerAddressLine2,
        input CustomerCity, input CustomerState, input CustomerPostalCode, input CustomerCountry,
48
        input CustomerID,
49
50
        CURDATE(),
        DATE ADD(CURDATE(), INTERVAL 7 DAY), # Default payment deadline: 7 days
51
52
        input InvoiceStatus
53
      FROM customer c
54
      WHERE c.CustomerID = input CustomerID;
55
      # Get the newly inserted InvoiceID to use later with the invoicePosition
57
      SELECT InvoiceID
58
      INTO new InvoiceID
      FROM invoice
60
      WHERE CustomerID = input CustomerID
        AND IssueDate = CURDATE()
61
        AND DueDate = DATE ADD(CURDATE(), INTERVAL 7 DAY)
62
        AND InvoiceStatus = input InvoiceStatus
63
        AND InvoiceID = LAST_INSERT_ID(); # This will work. Why? Cuz it's for a given session (no need to worry about
    the other users) and since the last insert was into an invoice table (the insert above) we will get the last
    invoice ID
```

```
67
      # Insert cars into invoicePosition
      INSERT INTO invoiceposition (
        InvoiceID, ProductType, ProductReferenceID,
        Ouantity, UnitNetPrice, VATRate
      SELECT
        new_InvoiceID,
73
        'Car' AS ProductType,
74
        rc.CarID AS ProductReferenceID,
        rc.RentalDuration AS Ouantity.
77
        rc.DailyRateApplied AS UnitNetPrice,
78
        input VATRate
79
      FROM rentalcar rc
80
      WHERE rc.RentalID = input RentalID;
81
82
      # Insert amenities into invoicePosition
      INSERT INTO invoiceposition (
        InvoiceID, ProductType, ProductReferenceID,
85
        Quantity, UnitNetPrice, VATRate
86
87
      SELECT
        new InvoiceID,
        'Amenity' AS ProductType,
        ra. AmenityID AS ProductReferenceID,
90
        ra. Quantity AS Quantity,
91
        ra.DailyRateApplied AS UnitNetPrice,
92
93
        input VATRate
      FROM rentalamenity ra
94
      WHERE ra.RentalID = input RentalID;
```

```
97
       # Calc totals for the invoice
 98
       SELECT
 99
         SUM(NetAmount) AS TotalNet,
         SUM(VATAmount) AS TotalVAT,
100
         SUM(GrossAmount) AS TotalGross
101
102
       INTO
103
         invoice total net, invoice total vat, invoice total gross
104
       FROM invoiceposition
       WHERE InvoiceID = new InvoiceID;
105
106
       # Update invoice with totals
107
108
       UPDATE invoice
109
       SET
110
         TotalNetAmount = invoice total net,
         TotalVAT = invoice total vat,
111
112
         TotalGrossAmount = invoice_total_gross
113
       WHERE InvoiceID = new InvoiceID;
114
115
    COMMIT:
116
     END
```

Najciekawsze procedury

Dodaj rezerwację

```
1 - CREATE DEFINER=`herczyk_wiktoria_katarzyna`@`%` PROCEDURE `AddRental`(
                                                                                                                          SET vRentalDuration = (DATEDIFF(vExpectedReturnDate, vRentalDate) + 1);
     IN vRentalDate DATE,
                                                                                                                          SET vNetAmount = (vDailvRate * vRentalDuration);
     IN vExpectedReturnDate DATE.
                                                                                                                          SET vDiscountApplied = (SELECT CalculateDiscountAmount(vRentalDate, vExpectedReturnDate, vNetAmount))
     IN vVat DECIMAL(7,2),
                                                                                                                   36
     IN vReservationID INT.
                                                                                                                           IF vVat is NULL THEN
     IN vDailyRate DECIMAL(7,2)
                                                                                                                   38
                                                                                                                           Set vVat = 0.23 * vNetAmount;
                                                                                                                          end if:
                                                                                                                   40
     DECLARE vTotalGrossAmount DECIMAL(8,2);
                                                                                                                   41
    DECLARE vDiscountApplied DECIMAL(7,2);
                                                                                                                          SET vTotalGrossAmount = (vVat + vNetAmount - vDiscountApplied);
    DECLARE vNetAmount DECIMAL(8,2);
                                                                                                                   43
     DECLARE vRentalDuration SMALLINT(4):
                                                                                                                          INSERT INTO rental (
     DECLARE vRentalID INT (10);
                                                                                                                            RentalID, RentalDate, ExpectedReturnDate, ActualReturnDate,
     DECLARE vCarID INT(10):
                                                                                                                            TotalNetAmount, TotalVAT, TotalGrossAmount, InvoiceID,
                                                                                                                   47
                                                                                                                            ReservationID, DiscountApplied
     IF vReservationID not in (SELECT ReservationID from reservationcar) THEN
                                                                                                                          ) VALUES (
      SIGNAL SQLSTATE '45000
                                                                                                                   49
                                                                                                                            vRentalID, vRentalDate, vExpectedReturnDate, NULL,
           SET MESSAGE TEXT = "Reservation doesn't exist";
                                                                                                                   50
                                                                                                                            vNetAmount, vVat, vTotalGrossAmount, NULL,
     ELSEIF (SELECT ReservationStatus from reservation WHERE ReservationID = vReservationID) != "Active" THEN
                                                                                                                            vReservationID, vDiscountApplied
      SIGNAL SOLSTATE '45000'
                                                                                                                   52
           SET MESSAGE TEXT = "Reservation canceled or already completed";
     END IF;
                                                                                                                          INSERT INTO rentalcar (
                                                                                                                            RentalID, CarID, DailyRateApplied, DiscountApplied, RentalDuration
     start transaction;
                                                                                                                            vRentalID, vCarID, vDailyRate, vDiscountApplied, vRentalDuration
     SET vCarID = (SELECT COALESCE(CarID, NULL) from reservationcar where ReservationID = vReservationID);
                                                                                                                   58
     SET vRentalID = (SELECT COALESCE(MAX(RentalID), 0) + 1 FROM rental);
                                                                                                                   59
                                                                                                                   60
                                                                                                                          UPDATE reservation SET ReservationStatus = "Completed" WHERE ReservationID = vReservationID;
     IF vDailvRate IS NULL THEN
       SET vDailyRate = (SELECT DailyRate FROM car WHERE CarID = vCarID);
                                                                                                                          commit;
     END IF;
                                                                                                                   64
```

Inne ciekawe funkcjonalności

- Tabele audytowe
- Triggery
- Partycjonowanie
- Transakcje

Tabele audytowe - car_audit

AuditID # int(11)	CarlD # int(11)	LicensePlateNumber	VIN _{ABC} varchar(17)	MakeID # int(11)	Model ABC varchar(50)	Year # smallint(6)	CarStatus % enum	DailyRate # decimal(7,2)	ChangeType % enum	ChangedBy ABC varchar(50)	ChangeTimestamp © timestamp
13	6	POZ11111	1HGCM82633A1	0	Golf	2015	Available	100,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:40
4	6	POZ11111	1HGCM82633A1	0	Golf	2015	Available	100,00	UPDATE	herczyk_wiktoria	2025-01-22 09:33:44
27	20	WAW60606	1HGCM82633A6	0	Q5	2017	Under Mainte	270,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:58
25	18	KAT40404	1HGCM82633A4	0	3 Series	2018	Rented	250,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:55
24	17	SZC30303	1HGCM82633A3	0	Astra	2020	Available	125,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:54
23	16	GDA20202	1HGCM82633A2	0	Focus	2019	Available	130,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:53
21	14	POZ99999	1HGCM82633A9	0	Clio	2016	Available	110,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:50
20	13	GD88888	1HGCM82633A8	0	CX-5	2018	Under Mainte	190,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:49
19	12	WAW77777	1HGCM82633A7	0	Sportage	2020	Available	200,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:48
17	10	KAT55555	1HGCM82633A5	0	208	2019	Available	140,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:46
16	8	GDA33333	1HGCM82633A3	0	Civic	2018	Available	130,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:44
14	7	LOD22222	1HGCM82633A2	0	Octavia	2016	Under Mainte	110,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:41
12	4	GD12345	1HGCM82633A3	0	A4	2017	Available	180,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:40
11	3	WAW54321	1HGCM82633A5	0	X5	2020	Under Mainte	300,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:40
10	2	KRK98765	1HGCM82633A9	0	Fiesta	2019	Available	120,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:39
9	1	KRA12345	1HGCM82633A1	0	Corolla	2018	Available	150,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:38
7	20	WAW60606	1HGCM82633A6	0	Q5	2017	Under Mainte	270,00	UPDATE	herczyk_wiktoria	2025-01-22 12:28:33
3	10	KAT55555	1HGCM82633A5	0	208	2019	Available	140,00	UPDATE	herczyk_wiktoria	2025-01-22 09:33:33
2	20	WAW60606	1HGCM82633A6	0	Q5	2017	Under Mainte	270,00	UPDATE	herczyk_wiktoria	2025-01-22 09:33:15
1	8	GDA33333	1HGCM82633A3	0	Civic	2018	Available	130,00	UPDATE	dylag_matylda_a	2025-01-20 15:58:17
26	19	KRK50505	1HGCM82633A5	0	E-Class	2022	Under Mainte	280,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:57
22	15	LOD10101	1HGCM82633A1	0	Yaris	2021	Rented	140,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:52
18	11	KRK66666	1HGCM82633A6	0	Qashqai	2021	Rented	220,00	UPDATE	dylag_matylda_a	2025-01-26 19:53:47

Triggery

AFTER UPDATE w tabeli car

```
BEGIN
    INSERT INTO `car_audit` ( `CarID`, `LicensePlateNumber`, `VIN`, `MakeID`, `Model`
, `Year`, `CarStatus`, `DailyRate`, `ChangeType`, `ChangedBy`, `ChangeTimestamp` )
    VALUES
        OLD.CarID,
        OLD.LicensePlateNumber,
        OLD. VIN,
        OLD.MakeID,
        OLD. Model,
        OLD. YEAR,
        OLD.CarStatus,
        OLD.DailyRate,
        'UPDATE',
        USER (),
        NOW()
  END
```

Triggery

AFTER DELETE w tabeli car

```
BEGIN
    INSERT INTO `car_audit` ( `CarID`, `LicensePlateNumber`, `VIN`, `MakeID`, `Model`
, `Year`, `CarStatus`, `DailyRate`, `ChangeType`, `ChangedBy`, `ChangeTimestamp` )
    VALUES
        OLD.CarID,
        OLD.LicensePlateNumber,
        OLD. VIN,
        OLD.MakeID,
        OLD.Model,
        OLD. YEAR,
        OLD.CarStatus,
        OLD.DailyRate,
        'DELETE',
        USER (),
        NOW()
  END
```

Partycjonowanie

Partycjonowanie tabeli z autami na podstawieich roku produkcji

Partition By:	RANGE	∨ Year`	
Partitions:	4		
Subpartition By:		~	
Subpartitions:	0		
Manually Create:	✓ Partition ✓ S	Subpartition	
Partition Definition			
p_do_2015		2016	
p_do_2020		2021	
p_do_2025		2026	
p_max		MAXVALUE	

Transakcje

Transakcja dodająca nową rezerwację

Dziękujemy za uwagę!