## **Project Progress**

CSD317: Introduction to Database Systems

[Smart City Public Transport Management]

- = Enamining model for functional dependencies, and normalization
- (1) Human (10-No, F-name, L-name, DOB, AGE, V-id) -RI

  10-No & a appropriate primary key have

  all other athibutes are bunchanally dependent on 10-no
  no barsitive relations on partially dependent attributes have

  : RI is a BCNF
- (2) Vahide (Vehide\_10, Current\_loc, status, last-update) > R2

  All atmosites completaly depudent on vehide\_10

  vehide\_1'd is primary key
  - : RZ is in BUNF
- (3) Route bollowerd (Vehide\_ID, RT\_ID) -> R3

  Enstr m BCNF, both attibutes one primary keys

  : R3 in BCNF
- (F) Rowle (Journey-time, R-10, Start-point, and-point, distance) -> R4
  - : R4 m BLOUF
- (5) Schadule Followeed (R\_1D, S\_1D) -> R5 Smilion to alrana
  - : R5 m BCNF
- © Schedule (Schedule-1D, R-10, V-10, departe-tree, arrival-tree) → R6 Similion to above
  - : R6 in BCNF
- 9 Operator on (V-id, S-id) -> e7
  Smilian to alrava
  - :. RT n BCNF
- (8) Accident History (V-id, I-id) -> R8 Similar to above : R8 in BCNF

- 9 Incident (modert 10, vid, description, report-time-date) > Rg Similar to above : R9 in BCNF
- (10) Mantenance History (m\_id, v\_id) -> RIO Similar to above :: RIO in BCNF
- Monterance (manterance -1d, vid, Issue-raported , report status) + RII of BLOVE

  : RII in BLOVE
- (12) Redoms montenance (m-id, stable-id) -> RIZ Soution to above : RIZ m BCNF
  - (3) Paymot (amount, <u>Paymont-10</u>, passenger-10, method) -> R13 Simila to about

: . R13 in BCHF

Thus all the relations in this schema are normalized UPTO BUT.

```
mysql> Creating Database "smartcity" and Selecting it

Query OK, 1 row affected (0.00 sec)

mysql> USE smartcity;
Database changed

mysql> -- Create VEHICLE table
mysql> CREATE TABLE VEHICLE (
-> VEHICLE_ID INT PRIMARY KEY,
-> CURRENT_LOCATION VARCHAR(100),
-> STATUS VARCHAR(50),
-> LAST_UPDDATE DATETIME
->);

Creating Database "smartcity" and Selecting it

Creating Database "smartcity" and Selecting it

Creating Database "smartcity" and Selecting it
```

```
-> );
Query OK, 0 rows affected (0.04 sec)
  mysql>
 -> );
Query OK, 0 rows affected (0.05 sec)
mysql>
mysql> -- Create ROUTE table
mysql> CREATE TABLE ROUTE (
-> R_ID INT PRIMARY KEY,
-> JOURNEY_IIME TIME,
-> START_POINT VARCHAR(100),
-> END_POINT VARCHAR(100),
-> DISTANCE DECIMAL(10, 2)
  -> );

Query OK, 0 rows affected (0.04 sec)
                                                                                                                                                                    Creating Tables
-> );
Query OK, 0 rows affected (0.04 sec)
mysql>
mysql> -- Create SCHEDULE table
mysql> CREATE TABLE SCHEDULE (
-> SCHEDULE_ID INT PRIMARY KEY,
-> R_ID INT,
-> V_ID INT,
-> DEPARTURE_TIME TIME,
-> ARRIVAL_TIME TIME,
-> FOREIGN KEY (R_ID) REFERENCES ROUTE(R_ID),
-> FOREIGN KEY (V_ID) REFERENCES VEHICLE(VEHICLE_ID)
-> }
mysql>
-> );
Query OK, 0 rows affected (0.05 sec)
 mysql>
 mysql>
mysql> CREATE TABLE SCHEDULE_FOLLOWED (
-> R_ID INT,
-> S_ID INT,
-> PRIMARY KEY (R_ID, S_ID),
-> FOREIGN KEY (R_ID) REFERENCES ROUTE(R_ID),
-> FOREIGN KEY (S_ID) REFERENCES SCHEDULE(SCHEDULE_ID)
   uery OK, 0 rows affected (0.04 sec)
```

```
mysql> CREATE TABLE OPERATES_ON (
-> V_ID INT,
-> S_ID INT,
-> PRIMARY KEY (V_ID, S_ID),
-> FOREIGN KEY (V_ID) REFERENCES VEHICLE(VEHICLE_ID),
-> FOREIGN KEY (S_ID) REFERENCES SCHEDULE(SCHEDULE_ID)
  -> );
Query OK, 0 rows affected (0.04 sec)
  mysql>
 mysql>
mysql> -- Create INCIDENT table
mysql> CREATE TABLE INCIDENT (
-> INCIDENT_ID INT PRIMARY KEY,
-> V_ID INT,
-> DESCRIPTION TEXT,
-> REPORT_TIME_DATE DATETIME,
-> FOREIGN KEY (V_ID) REFERENCES VEHICLE(VEHICLE_ID)
  -> );
Query OK, 0 rows affected (0.04 sec)
-> );
Query OK, 0 rows affected (0.04 sec)
wysql> -- Create MAINTENANCE (a.04 Sec)
mysql> CREATE TABLE MAINTENANCE (
-> MAINTENANCE_ID INT PRIMARY KEY,
-> V_ID INT,
-> ISSUE_REPORTED TEXT,
-> REPAIR_STATUS VARCHAR(50),
-> FOREIGN KEY (V_ID) REFERENCES VEHICLE(VEHICLE_ID)
-> )
Query OK, 0 rows affected (0.04 sec)
-> );
uery OK, 0 rows affected (0.04 sec)
mysql>
mysql> -- Create MAINTENANCE_HISTORY table
mysql> CREATE TABLE MAINTENANCE_HISTORY (
-> M_ID INT,
-> V_ID INT,
-> PRIMARY KEY (M_ID, V_ID),
-> FOREIGN KEY (M_ID) REFERENCES MAINTENANCE(MAINTENANCE_ID),
-> FOREIGN KEY (V_ID) REFERENCES VEHICLE(VEHICLE_ID)
-> );
Query OK, 0 rows affected (0.04 sec)
wysql> -- Create PAYMENT table
mysql> CREATE TABLE PAYMENT (
-> PAYMENT_ID INT PRIMARY KEY,
-> PASSENGER_ID INT,
-> AMOUNT DECIMAL(10, 2),
-> METHOD VARCHAR(50),
-> CORETON VEY (DASSENCED ID) (
                       FOREIGN KEY (PASSENGER_ID) REFERENCES HUMAN(ID_NO)
                    0 rows affected (0.04 sec)
```

```
# WORT INTO VEHICLE (VEHICLE 1D. CURRENT LOCATION, STATUS, LAST_UPDATE) VALUES

- (2, 1 los Angeles, 'Stackive', '2026-89-30 18:00:00'),
- (3, 'Indicape', 'Active', '2026-89-30 18:00:00'),
- (4, 'Bonnonis', 'Active', '2026-89-30 18:00:00'),
- (5, 'Bonnonis', 'Active', '2026-89-30 18:00:00'),
- (6, 'Paniladelphia', 'Intitute', '2026-89-30 18:00:00'),
- (7, 'San Antonio, 'Active', '2026-89-30 18:00:00'),
- (8, 'San Antonio, 'Active', '2026-89-30 18:00:00'),
- (9, 'San Jose', 'Tractive', '2026-89-30 18:00:00'),
- (10, 'San Jose', 'Tractive', '2026-89-30 18:00:00'),
- (10, 'San Jose', 'Tractive', '2026-89-30 18:00:00'),
- (11, 'San Jose', 'Tractive', '2028-89-30 18:00:00'),
- (12, 'Asteonville', 'Active', '2028-89-30 18:00:00'),
- (13, 'San Francisco', 'Active', '2028-89-30 18:00:00'),
- (14, 'San Jose', 'Tractive', '2028-89-30 18:00:00'),
- (15, 'San Francisco', 'Active', '2028-89-30 18:00:00'),
- (16, 'Charlotte', 'Maintenance', '2028-89-30 18:10:00'),
- (17, 'San Jose', 'Active', '2028-89-30 18:10:00'),
- (18, 'San Jose', 'Active', '2028-89-30 18:10:00'),
- (19, 'San Jose', 'Active', '2028-89-30 18:10:00'),
- (19, 'San Jose', 'Active', '2028-89-30 18:10:00'),
- (20, 'Mainingoin, 'Maintenance', '2028-89-30 18:10:00'),
- (22, 'Alloward, 'Active', '2028-89-30 18:10:00'),
- (23, 'Mainville', 'Active', '2028-89-30 18:10:00'),
- (24, 'Mainville', 'Active', '2028-89-30 18:10:00'),
- (25, 'Mainville', 'Active', '2028-89-30 18:10:00'),
- (26, 'Mainville', 'Active', '2028-89-30 18:10:00'),
- (27, 'Mainville', 'Active', '2028-89-30 18:10:00'),
- (28, 'Mainville', 'Active', '2028-89-30 18:10:00'),
- (29, 'Mainville', 'Active', '2028-89-30 18:10:00'),
- (20, 'Mainville', 'Active', '2028-89-30 18:10:00'),
- (20, 'Mainville', 'Active', '2028-89-30 18:20:00'),
- (20, 'Mainville', 'Active', '2028-89-30 18:20:00'),
- 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Inserting into Vehicle Table
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Inserting in Route Table
```

```
mysql> INSERT INTO ROUTE_FOLLOWED (VEHICLE_ID, RT_ID) VALUES
-> (1, 1),
-> (2, 2),
-> (3, 3),
-> (4, 4),
-> (5, 5),
-> (6, 6),
-> (7, 7),
-> (8, 8),
-> (9, 9),
-> (10, 10),
-> (11, 11),
-> (12, 12),
-> (13, 13),
-> (14, 14),
-> (15, 15),
-> (16, 16),
-> (17, 17),
-> (18, 18),
-> (19, 19),
-> (20, 20),
-> (21, 21),
-> (22, 22),
-> (23, 23),
-> (24, 24),
-> (25, 25),
-> (26, 26),
-> (27, 27),
-> (28, 28),
-> (29, 29),
-> (31, 31),
-> (31, 31),
-> (32, 32),
-> (34, 34),
-> (35, 35),
-> (36, 36),
-> (37, 37),
-> (38, 38),
-> (39, 39),
-> (40, 40),
-> (41, 41),
-> (42, 42),
-> (43, 43),
-> (44, 44),
-> (45, 45),
-> (46, 46),
-> (47, 47),
-> (48, 18),
-> (49, 49),
-> (40, 40),
-> (41, 41),
-> (42, 42),
-> (43, 43),
-> (44, 44),
-> (45, 45),
-> (46, 46),
-> (47, 47),
-> (48, 18),
-> (49, 49),
-> (49, 49),
-> (40, 40),
-> (41, 41),
-> (42, 42),
-> (43, 43),
-> (44, 44),
-> (45, 45),
-> (46, 46),
-> (47, 47),
-> (48, 48),
-> (49, 49),
-> (40, 40),
-> (41, 41),
-> (42, 42),
-> (43, 43),
-> (44, 44),
-> (45, 45),
-> (46, 46),
-> (47, 47),
-> (48, 48),
-> (49, 49),
-> (50, 50);
Query Ok, 50 rows affected (0.01 sec)
Records: 50 Duplicates: 0 Warnings: 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Inserting in Route_Followed Table
```



```
mysql> INSERT INTO SCHEDULE_FOLLOWED (R_ID, S_ID) VALUES
-> (1, 1),
-> (2, 2),
-> (3, 3),
-> (4, 4),
-> (5, 5),
-> (6, 6),
-> (7, 7),
-> (8, 8),
-> (9, 9),
-> (10, 10),
-> (11, 11),
-> (12, 12),
-> (13, 13),
-> (14, 14),
-> (15, 15),
-> (16, 16),
-> (17, 17),
-> (18, 18),
-> (19, 19),
-> (20, 20),
-> (21, 21),
-> (22, 22),
-> (23, 23),
-> (24, 24),
-> (25, 25),
-> (26, 26),
-> (27, 27),
-> (28, 28),
-> (29, 29),
-> (30, 30),
-> (31, 31),
-> (32, 32),
-> (33, 33),
-> (34, 34),
-> (35, 35),
-> (36, 36),
-> (37, 37),
-> (38, 38),
-> (41, 41),
-> (42, 42),
-> (43, 43),
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-> (49, 49),
-> (49, 49),
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-> (49, 49),
-> (49, 49),
-> (49, 49),
-> (49, 49),
-> (56, 56) Duplicates: θ Warnings: θ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Inserting in Schedule_Followed Table
```

```
mysql> INSERT INTO OPERATES_ON (V_ID, S_ID) VALUES
-> (1, 1),
-> (2, 2),
-> (3, 3),
-> (4, 4),
-> (5, 5),
-> (6, 6),
-> (7, 7),
-> (8, 8),
-> (9, 9),
-> (10, 10),
-> (11, 11),
-> (12, 12),
-> (13, 13),
-> (14, 14),
-> (15, 15),
-> (16, 16),
-> (17, 17),
-> (18, 18),
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-> (21, 21),
-> (22, 22),
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-> (24, 24),
-> (25, 25),
-> (26, 26),
-> (27, 27),
-> (28, 28),
-> (29, 29),
-> (30, 30),
-> (31, 31),
-> (34, 34),
-> (35, 35),
-> (34, 34),
-> (34, 34),
-> (35, 35),
-> (34, 34),
-> (34, 34),
-> (35, 35),
-> (34, 34),
-> (34, 34),
-> (34, 34),
-> (41, 41),
-> (42, 42),
-> (41, 41),
-> (42, 42),
-> (43, 43),
-> (44, 44),
-> (45, 45),
-> (46, 46),
-> (47, 47),
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-> (48, 48),
-> (49, 49),
-> (48, 48),
-> (49, 49),
-> (48, 48),
-> (49, 49),
-> (48, 50 rows affected (0.01 sec)
Records: 50 Duplicates: 0 Warnings: 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Inserting in Operates_On Table
```

```
mysql> INSERT INTO ACCIDENT_HISTORY (V_ID, I_ID) VALUES

-> (1, 1),
-> (2, 2),
-> (3, 3),
-> (4, 4),
-> (5, 5),
-> (6, 6),
-> (7, 7),
-> (8, 8),
-> (9, 9),
-> (10, 10),
-> (11, 11),
-> (12, 12),
-> (13, 13),
-> (14, 14),
-> (15, 15),
-> (16, 16),
-> (17, 17),
-> (18, 18),
-> (19, 19),
-> (20, 20),
-> (21, 21),
-> (22, 22),
-> (23, 23),
-> (24, 24),
-> (25, 25),
-> (26, 26),
-> (27, 27),
-> (28, 28),
-> (29, 29),
-> (30, 30),
-> (31, 31),
-> (32, 32),
-> (34, 34),
-> (35, 35),
-> (36, 36),
-> (37, 37),
-> (38, 38),
-> (39, 39),
-> (40, 40),
-> (41, 41),
-> (42, 42),
-> (43, 43),
-> (44, 44),
-> (45, 45),
-> (46, 46),
-> (47, 47),
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-> (48, 48),
-> (49, 49),
-> (48, 48),
-> (49, 49),
-> (49, 49),
-> (49, 49),
-> (49, 49),
-> (49, 49),
-> (50, 50);
Query OK, 50 rows affected (0.02 sec)
Records: 50 Duplicates: 0 Warnings: 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Inserting in Accident_History Table
```

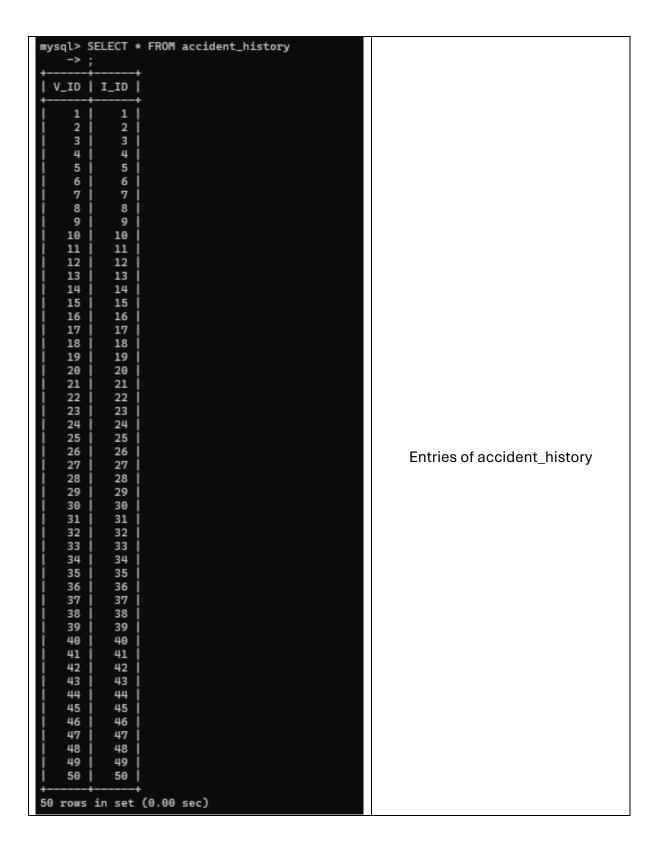
```
ysql> INSERT INTO MAINTENANCE (MAINTENANCE_ID, V_ID, ISSUE_REPORTED, REPAIR_STATUS) VALUES

-> (1, 1, '0il Change Required', 'Completed'),
-> (2, 3, 'Battery Replacement', 'In Progress'),
-> (4, 7, 'Engine Check', 'Completed'),
-> (5, 9, 'Transmission Fluid Change', 'In Progress'),
-> (6, 11, 'Suspension Check', 'Pending'),
-> (7, 13, 'Coolant Refill', 'Completed'),
-> (8, 15, 'Air Filter Change', 'In Progress'),
-> (9, 17, 'AC Repair', 'Pending'),
-> (10, 19, 'Tire Rotation', 'Completed'),
-> (11, 21, 'Brake Fluid Change', 'In Progress'),
-> (12, 23, 'Fuel Pump Replacement', 'Pending'),
-> (14, 27, 'Exhaust System Repair', 'In Progress'),
-> (16, 31, 'Windshield Crack Repair', 'To Progress'),
-> (16, 31, 'Windshield Crack Repair', 'Completed'),
-> (10, 33, 'Battery Charge Check', 'In Progress'),
-> (18, 35, 'Radiator Flush', 'Pending'),
-> (20, 39, 'Fuel Injector Cleaning', 'In Progress'),
-> (20, 39, 'Fuel Injector Cleaning', 'In Progress'),
-> (21, 41, 'Wiper Bade Replacement', 'Pending'),
-> (22, 43, 'Saatbelt Repair', 'Completed'),
-> (24, 47, 'Had Gasket Replacement', 'Pending'),
-> (26, 50, 'Brake Disc Resurfacing', 'In Progress'),
-> (28, 46, 'Throttle Body Cleaning', 'Completed'),
-> (29, 49, 'Usabboard Light Fix', 'Completed'),
-> (29, 49, 'Osabboard Light Fix', 'Completed'),
-> (20, 49, 'Sarbe Disc Resurfacing', 'In Progress'),
-> (21, 41, 'Interdial Fluid Change', 'Th Progress'),
-> (22, 48, 'Spark Plug Replacement', 'Pending'),
-> (23, 48, 'Chrave Update', 'Completed'),
-> (31, 36, 'Catalytic Convertement', 'Pending'),
-> (31, 36, 'Catalytic Convertement', 'Pending'),
-> (32, 38, 'Catalytic Convertement', 'In Progress'),
-> (41, 24, 'Had Gasket Replacement', 'Pending'),
-> (41, 24, 'Had Gasket Replacement', 'Pending'),
-> (31, 36, 'Catalytic Convertement', 'In Progress'),
-> (31, 36, 'Catalytic Convertement', 'Pending'),
-> (41, 24, 'Had Gasket Replacement', 'Pending'),
-> (42, 43, 'Had Gasket Replacement', 'Pending'),
-> (44, 44, 'Hadter Core Flush', 'Th Progress'),
-> (46, 16, 'Alternator Check',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Inserting in Maintenance Table
un, 19. cy doint Bernst Clearing (and the state of the st
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Inserting in Perform_Maintenance Table
```

```
NSERT INTO MAINTENANCE_HISTORY (M_ID, V_ID) VALUES

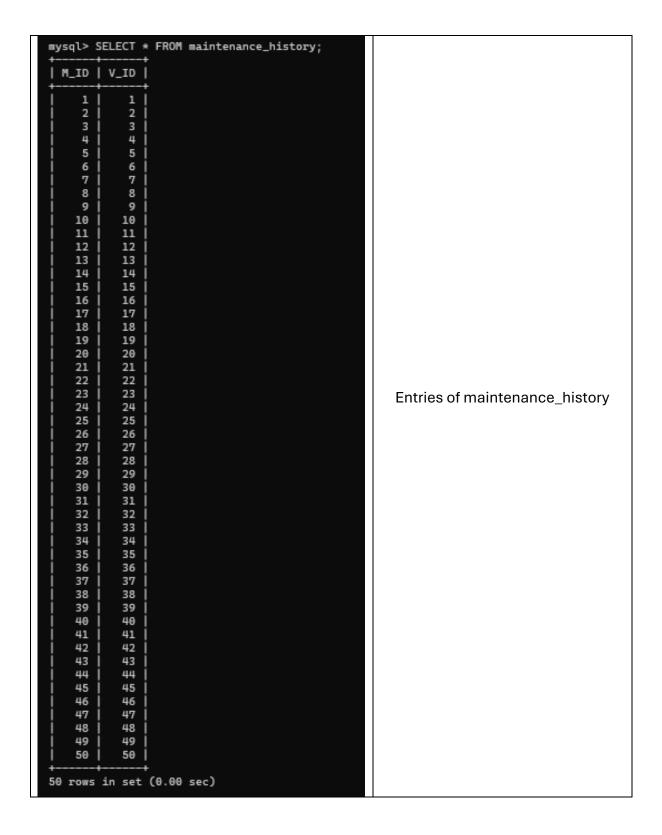
(1, 1),
(2, 2),
(3, 3),
(4, 4),
(5, 5),
(6, 6),
(7, 7),
(8, 8),
(9, 9),
(10, 10),
(11, 11),
(12, 12),
(13, 13),
(14, 14),
(15, 15),
(16, 16),
(17, 17),
(18, 18),
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(44, 44),
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(46, 46),
(47, 47),
(48, 48),
(49, 49),
(49, 49),
(50, 50 puplicates: 0 Warnings: 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Inserting in Maintenance_History Table
```

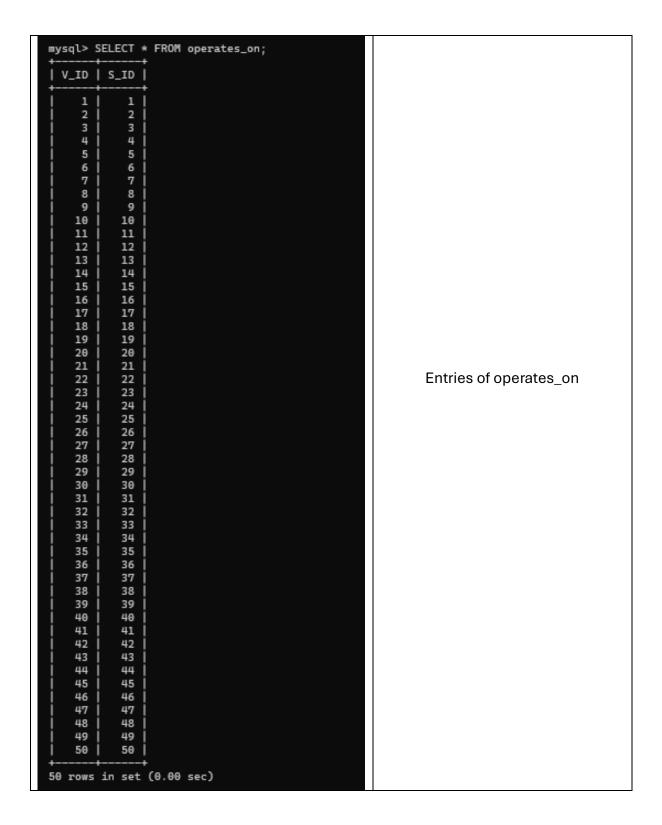
```
Inserting in Payment Table
mysql> SHOW TABLES;
  Tables_in_smartcity
 accident_history
  human
  incident
  maintenance
  maintenance_history
                                            All The Tables
  operates_on
  payment
  performs_maintenance
  route
 route_followed
  schedule
  schedule_followed
  vehicle
13 rows in set (0.00 sec)
```



mysql> SE	LECT * FROM	human;					
ID_NO	FNAME	LNAME	DOB	AGE	V_ID	4	
1 1	John	Doe	1985-06-15	39	1 1		
2	Alice	Smith	1990-03-22	34	1 2 1		
3	Bob	Johnson	1982-08-10	42	3		
4	Emily	Davis	1995-11-25	29	4		
5	Michael	Brown	1987-05-30	37	5		
6	Sarah	Miller	1993-07-12	31	6		
7	David	Wilson	1980-09-18	44	7		
8	Jessica	Moore	1998-12-05	26	8		
9	Daniel	Taylor	1983-04-29	41	9		
10	Laura	Anderson	1992-06-20	32	10		
11	Chris	Thomas	1986-10-14	38	11	4	
12	Sophia	Jackson	1997-01-07	27	12	4	
13	Matthew	White	1989-02-17	35	13	4	
14	Olivia	Harris	1994-08-30	30	14	4	
15	James	Martin	1981-07-21	43	15	4	
16	Emma.	Thompson	2000-05-15	24	16	4	
17	Ethan	Garcia	1991-09-05	33	17	4	
18	Ava	Martinez	1984-12-10	40	18	4	
19	Logan	Robinson	1999-04-28	25	19	4	
20	Mia	Clark	1996-11-11	28	20	4	
21	Alexander	Rodriguez	1988-03-09	36	21		
22	Isabella	Lewis	1985-07-23	39	22		
23	Benjamin	Walker	1990-10-01	34	23		
24	Charlotte	Hall	2001-06-14	23	24		
25	Henry	Allen	1983-08-02	41	25		
26   27	Amelia Lucas	Young	1998-01-18   1982-05-25	26   42	26     27	4	
28	Harper	King   Wright	1995-12-31	29	27	4	Fortille CI
29	Mason	Wright   Scott	1992-07-07	32	20	4	Entries of humar
30 I	Ella	Green	1986-04-19	32	30	4	
31	Elijah	Adams	1993-10-22	30	30	4	
32	Scarlett	Baker	1980-03-16	44	32	4	
33	Jacob	Gonzalez	1987-09-09	37	32	4	
34	Grace	Nelson	1999-05-30	25	34	4	
35	William	Carter	1984-11-14	40	35	4	
36	Sophie	Mitchell	1997-06-08	27	36	4	
37	Daniel	Perez	1991-02-05	33	37	4	
38	Chloe	Roberts	1994-09-27	30	38	4	
39	Jack	Turner	1989-12-21	35	39	4	
40	Lily	Phillips	2002-03-11	22	i 40 i	4	
41	Owen	Campbell	1985-06-04	39	41	4	
42	Zoey	Parker	1996-08-16	28	42	4	
43	Sebastian	Evans	1983-07-25	41	43	4	
44	Hannah	Edwards	1995-01-29	29	44	4	
45	Dylan	Collins	1990-11-13	34	45	4	
46	Madison	Stewart	1988-04-07	36	46	4	
47	Caleb	Sanchez	1992-12-17	32	j 47 j	4	
48	Victoria	Morris	1993-05-03	j 31	j 48 j	4	
49	Nathan	Rogers	1987-10-26	j 37	49	4	
50	Eleanor	Reed	2000-07-12	24	50		
0 rows i	in set (0.00	sec)			·		

mysql> SELECT * F	FROM i	ncident;				
INCIDENT_ID   \	V_ID	DESCRIPTION	REPOR	T_TIME_DATE		
1	1	Engine failure		03-20 10:00:00		
2   3	3   5	Brake malfunction   Overheating		03-21 11:30:00   03-21 12:15:00		
4     5	2   4	Transmission issue		03-21 14:00:00   03-22 09:45:00		
j 6 j	6 j	Fuel leakage	2025-	03-22 10:30:00		
7     8	7   8	Battery drain   Headlight malfunction		03-22 13:00:00   03-22 18:20:00		
9   10	9   10	Alternator failure Steering issue		03-23 08:00:00   03-23 10:15:00		
11	11	Suspension problem	2025-	03-23 14:30:00		
12	12   13	Oil leakage Radiator failure		03-23 16:45:00   03-23 17:00:00		
14     15	14   15	Exhaust system fault Tire puncture		03-24 07:20:00   03-24 09:10:00		
16	16	Clutch failure	2025-	03-24 11:25:00		
17   18	17   18	Power window malfunction   Horn failure		03-24 12:50:00   03-24 15:30:00		
19     20	19   20	Airbag fault Dashboard warning lights		03-24 17:40:00   03-24 20:00:00		
j 21 j	21	Wiper malfunction	2025-	03-25 07:45:00		
22   23	22   23	Speedometer issue Starter motor failure		03-25 09:20:00   03-25 11:15:00		
24     25	24   25	Water pump issue Fuel pump failure		03-25 12:30:00   03-25 14:10:00		
j 26 j	26	Door lock failure	2025-	03-25 16:30:00		Entries of incident
27     28	27   28	Shock absorber issue   Ignition coil failure		03-25 18:45:00   03-25 20:00:00		
29     30	29   30	Seatbelt malfunction Head gasket issue	2025-	03-25 21:30:00   03-25 23:15:00		
31	31	Coolant leakage	2025-	03-26 06:30:00		
32     33	32   33	Differential failure   Timing belt issue		03-26 08:45:00   03-26 10:10:00		
i 34 i	34   35	Fan belt failure Air conditioning problem	2025-	03-26 11:55:00   03-26 13:40:00		
j 36 j	36 İ	Car alarm malfunction	2025-	03-26 15:00:00		
37   38	37   38	Windshield crack Parking brake failure	2025- 2025-	03-26 16:30:00   03-26 18:15:00		
i 39 i I 4 <del>0</del> i	39   40	Fog light malfunction	2025-	03-26 19:45:00   03-26 21:00:00		
41	41	Reverse gear issue Turbocharger failure	2025-	03-26 22:30:00		
42   43	42   43	Engine misfire   GPS system failure		03-27 07:00:00   03-27 08:30:00		
i 44 i I 45 i	44   45	Catalytic converter issue	2025-	03-27 10:00:00   03-27 11:15:00		
j 46 j	46 İ	Throttle body malfunction   AC compressor issue	2025-	03-27 12:45:00		
47   48	47   48	Car key not detected   Brake pad wear		03-27 14:00:00   03-27 15:30:00		
49     50	49   50	Fuel injector issue	2025-	03-27 17:00:00   03-27 18:45:00		
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50 rows in set () mysql> SELECT * F MAINTENANCE_ID  1 2 3 3 4 4 5 6	ROM ma   V_ID   1   3   5   7   9	intenance;  ISSUE_REPORTED  Oil Change Required Battery Replacement Brake Pad Replacement Engine Check Transmission Fluid Change Suspension Check		REPAIR_STATUS    Completed   In Progress   Pending   Completed   In Progress   Pending		
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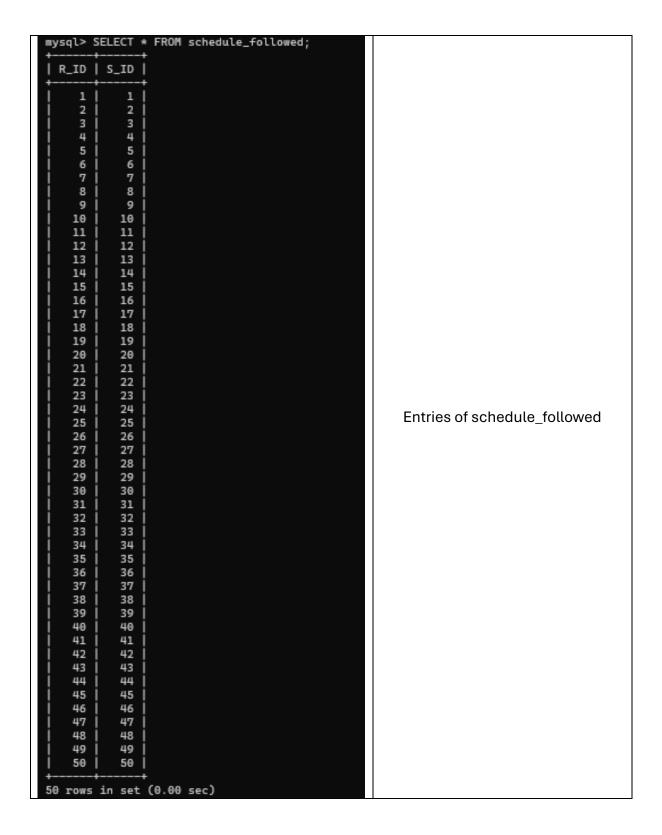
mysql> SELECT	* FROM payment	i				
PAYMENT_ID	PASSENGER_ID	AMOUNT	METHOD	į		
1	2	15.50	Credit Card	i		
2	5	20.00	Cash	1		
] 3	7	18.75	Debit Card	ı		
4	10	22.00	Mobile Wallet	1		
5	12	19.50	Credit Card	1		
6	15	17.25	Cash	ı		
7	18	25.00	Debit Card	ļ .		
8	ļ 20	30.75	Mobile Wallet	ļ .		
9	. 22	12.00	Credit Card	ļ .		
10	ļ 25	16.50	Cash	ļ .		
11	ļ 27	14.75	Debit Card	ļ .		
12	J 30	21.00	Mobile Wallet	!		
13	32	23.25	Credit Card	!		
14	35	19.00	Cash	!		
15	38	15.50	Debit Card	!		
16	40	26.00	Mobile Wallet	!		
17	42	28.75	Credit Card	!		
18	45	11.50	Cash	!		
19	47	22.50	Debit Card	!		
20	49	20.25	Mobile Wallet	!		
21	3	18.50	Credit Card	!		
22	6   9	24.00   16.75	Cash	!		
23	1 11	12.50	Debit Card   Mobile Wallet	:		
24	11 13	29.00	Credit Card	:		Entries of payment
25	15	14.25	Cash	:		
20	10	27.50	Debit Card	:		
28	21	25.25	Mobile Wallet			
29	23	21.75	Credit Card	i		
30	26	13.50	Cash	i		
31	28	17.25	Debit Card	i		
32	31	20.00	Mobile Wallet	i		
33	33	15.75	Credit Card	i		
34	36	18.50	Cash	i		
35	39	24.75	Debit Card	i		
36	j 41	29.50	Mobile Wallet	I		
37	43	22.00	Credit Card	ļ .		
38	46	16.00	Cash	ļ		
39	ļ 48	14.50	Debit Card	ļ		
40	ļ 50	19.25	Mobile Wallet	ļ .		
41	] 1	27.75	Credit Card	!		
42	4	13.00	Cash	!		
43	. 8	15.25	Debit Card	!		
44	14	17.00	Mobile Wallet	!		
45	17	23.50	Credit Card	<u> </u>		
46	29	12.75	Cash	!		
47	34	30.00	Debit Card	<u> </u>		
48	] 37   44	26.25	Mobile Wallet	<b>!</b>		
49   50	44   49	22.75   10.75	Credit Card   Mobile Wallet	i		
+	t (0 00 coc)	+	·	+		
20 10#2 TH 26	c (0.00 Sec)				L	

mysql> SELECT *	FROM performs_maintenance;	
M_ID   STAFF		
1 1	1	
j 2 j	2	
3	3	
4	4	
5	5	
6	6   7	
8	8	
9 1	9	
10	10	
j 11 j	11	
12	12	
13	13	
14	14	
15	15	
16     17	16   17	
18	17   18	
19	19	
20	20	
j 21 j	21	
22	22	
23	23	
24	24	
25	25	Entries of performs_maintenance
26     27	26   27	. –
28	28	
29	29	
30	30	
j 31 j	31	
32	32	
33	33	
34	34	
35	35   36	
36     37	37	
38	38	
39	39	
40	40	
41	41	
42	42	
	43	
44     45	44   45	
46	46	
47	47	
48	48	
49	49	
50	50	
50 rows in set	•	

CID	JOURNEY_TIME	START_POINT	END_POINT	DISTANCE		
1	02:30:00	New York	Boston	320.50		
2	04:15:00	Los Angeles	San Francisco	615.00		
3	01:45:00	Chicago	Milwaukee	148.30		
4	05:10:00	Houston	Dallas	385.60		
5	03:20:00	Miami	Orlando	328.40		
6	06:45:00	Denver	Salt Lake City	835.50		
7	04:05:00	Seattle	Portland	280.20		
8	02:55:00	Atlanta	Charlotte	365.10		
9	07:30:00	San Diego	Las Vegas	530.75		
10	03:40:00	Detroit	Cleveland	275.80		
11	08:15:00	Phoenix	Albuquerque	750.90		
12	04:50:00	Philadelphia	Washington DC	225.50		
13	02:20:00	San Antonio	Austin	125.70		
14	06:30:00	Minneapolis	Kansas City	766.36		
15	05:50:00	Indianapolis	Louisville	185.40		
16	03:10:00	Columbus	Pittsburgh	290.60		
17	02:40:00	Buffalo	Rochester	120.90		
18	07:20:00	Las Vegas	Phoenix	500.80		
19	06:00:00	Memphis	Nashville	380.70		
20	05:25:00	St. Louis	Oklahoma City	630.50		
21	03:35:00	Baltimore	Richmond	250.40		
22	02:50:00	Charlotte	Raleigh	260.30		
23	04:10:00	Portland	Boise	670.20		
24	05:15:00	Milwaukee	Indianapolis	410.90		
25	06:40:00	New Orleans	Baton Rouge	170.80		
26	07:50:00	Salt Lake City	Boise	660.70		
27	03:45:00	Omaha	Des Moines	210.60	Entries of rou	ıte
28	04:55:00	Татра	Jacksonville	360.50		
29	02:35:00	Hartford	Providence	110.90		
30	08:00:00	Anchorage	Fairbanks	860.40		
31	03:05:00	Reno	Sacramento	220.30		
32	07:10:00	Tulsa	Little Rock	380.20		
33	05:05:00	Colorado Springs	Albuquerque	560.70		
34	02:25:00	Albany	Syracuse	150.90		
35	06:20:00	San Francisco	Reno	350.60		
36	04:30:00	El Paso	Tucson	430.50		
37	03:25:00	Knoxville	Lexington	240.80		
38	07:40:00	Wichita	Kansas City	320.70		
39	06:50:00	Birmingham	Montgomery	155.40		
40	04:45:00	Augusta	Savannah	250.30		
41	05:35:00	Charleston	Columbia	210.20		
42	02:15:00	Manchester   Boise	Boston	90.70		
43 44	06:10:00	Boise   Lubbock	Spokane Amarillo	590.80 200.50		
44	03:55:00 07:00:00	Lubbock   Corpus Christi	Amarillo   San Antonio	250.90		
45			San Antonio   Hilo	420.60		
46	08:20:00 04:35:00	Honolulu   Springfield	HILO   St. Louis	310.40		
47	04:35:00 05:45:00	Spring+ield   Greensboro		280.50		
48 49	05:45:00	Greensboro   Sioux Falls	Raleigh   Omaha	280.50		
50	92:45:00	Sioux Falls   Fargo	Umana   Minneapolis	395.20		

mysql> SELECT	* FROM route_followed;	
VEHICLE_ID	RT_ID	
1	1	
2	2	
] 3	] 3	
4 5	4     5	
6	6	
7	j 7 j	
8	ļ 8 <u>ļ</u>	
9	9	
10	10     11	
112	1 11	
13	13	
14	14	
15	15	
16	16	
17   18	17     18	
19	19	
20	20	
21	21	
22	22	
23	23     24	
25	25	
26	26	Entries of route_followed
27	27	
28	28	
29	29     30	
3 <del>0</del>   31	30	
32	32	
33	33	
34	34	
35	35	
36 37	36     37	
38	38	
39	39	
40	40	
41   42	41     42	
42	42     43	
44	44	
45	45	
46	46	
47   48	47     48	
48	48     49	
50	50	
+	++	
50 rows in se	t (0.00 sec)	

HEDULE_ID	R_ID	V_ID	DEPARTURE_TIME	ARRIVAL_TIME	
1	1	1	08:00:00	10:30:00	
2	2	2	09:00:00	12:45:00	
3	] 3	3	10:15:00	13:00:00	
4	4	4	11:00:00	14:20:00	
5	] 5	5	12:30:00	15:10:00	
6	6	6	13:00:00	16:30:00	
7	7	7	14:45:00	17:20:00	
8	8	8	15:30:00	18:00:00	
9	9	9	16:10:00	19:15:00	
10 11	10   11	10   11	17:00:00   18:30:00	20:00:00     21:15:00	
11	1 11	1 11	18:30:00	21:15:00     22:00:00	
13	1 13	1 13	20:00:00	23:30:00	
14	14	14	21:00:00	00:30:00	
15	15	14	22:10:00	01:00:00	
16	1 16	16	23:30:00	02:15:00	
17	17	17	00:45:00	03:10:00	
18	18	18	01:30:00	04:00:00	
19	19	19	02:15:00	05:00:00	
20	20	20	03:00:00	06:30:00	
21	21	21	04:45:00	07:20:00	
22	22	22	05:30:00	08:00:00	
23	23	23	06:10:00	09:15:00	
24	24	24	07:00:00	10:00:00	
25	25	25	08:30:00	11:15:00	First in a of a abadula
26	1	26	09:10:00	12:00:00	Entries of schedule
27	j 2	27	10:00:00	13:30:00	
28	3	28	11:15:00	14:45:00	
29	4	29	12:45:00	16:20:00	
3θ	5	30	14:00:00	17:30:00	
31	6	31	15:30:00	18:50:00	
32	7	32	16:10:00	19:15:00	
33	8	33	17:45:00	21:00:00	
34	9	34	18:30:00	21:45:00	
35	10	35	19:00:00	22:30:00	
36	11	36	20:30:00	23:50:00	
37	1 12	37	21:10:00	00:40:00	
38	13	38	22:30:00	02:00:00	
39 40	14   15	39   40	23:45:00 00:30:00	03:15:00     04:00:00	
49	1 16	40   41	01:15:00	04:00:00	
41	1 17	41	02:00:00	06:00:00	
43	1 18	42	03:20:00	07:30:00	
44	1 19	44	04:45:00	07:30:00	
45	20	45	05:30:00	09:00:00	
46	21	46	06:15:00	10:20:00	
47	22	47	07:00:00	11:15:00	
48	23	48	08:30:00	12:45:00	
49	24	49	12:00:00	14:50:00	
50	25	50	14:00:00	15:20:00	



sqt> SELECT	* FROM vehicle;			
VEHICLE_ID	CURRENT_LOCATION	STATUS	LAST_UPDATE	
1	New York	Active	2025-03-30 10:00:00	
2	Los Angeles	Inactive	2025-03-30 10:05:00	
3 j	Chicago	Active	2025-03-30 10:10:00	
4 [	Houston	Maintenance	2025-03-30 10:15:00	
5	Phoenix	Active	2025-03-30 10:20:00	
6	Philadelphia	Inactive	2025-03-30 10:25:00	
7	San Antonio	Active	2025-03-30 10:30:00	
8	San Diego	Maintenance	2025-03-30 10:35:00	
9	Dallas	Active	2025-03-30 10:40:00	
10	San Jose	Inactive	2025-03-30 10:45:00	
11	Austin	Active	2025-03-30 10:50:00	
12	Jacksonville	Maintenance	2025-03-30 10:55:00	
13	Fort Worth	Active	2025-03-30 11:00:00	
14	Columbus	Inactive	2025-03-30 11:05:00	
15	San Francisco	Active	2025-03-30 11:10:00	
16	Charlotte	Maintenance	2025-03-30 11:15:00	
17	Indianapolis	Active	2025-03-30 11:20:00	
18	Seattle	Inactive	2025-03-30 11:25:00	
19	Denver	Active	2025-03-30 11:30:00	
20	Washington	Maintenance	2025-03-30 11:35:00	
21	Boston	Active	2025-03-30 11:40:00	
22	El Paso	Inactive	2025-03-30 11:45:00	
23	Nashville	Active	2025-03-30 11:50:00	
24	Detroit	Maintenance	2025-03-30 11:55:00	Entries of vehicle
25	Oklahoma City	Active	2025-03-30 12:00:00	Littles of verlicte
26	Portland	Inactive	2025-03-30 12:05:00	
27	Las Vegas	Active	2025-03-30 12:10:00	
28   29	Memphis Louisville	Maintenance Active	2025-03-30 12:15:00   2025-03-30 12:20:00	
30 I	Baltimore	Inactive	2025-03-30 12:20:00	
31	Milwaukee	Active	2025-03-30 12:25:00	
32	Albuquerque	Maintenance	2025-03-30 12:35:00	
33	Tucson	Active	2025-03-30 12:33:00	
34	Fresno	Inactive	2025-03-30 12:45:00	
35	Sacramento	Active	2025-03-30 12:50:00	
36	Mesa	Maintenance	2025-03-30 12:55:00	
37 I	Kansas City	Active	2025-03-30 12:00:00	
38	Atlanta	Inactive	2025-03-30 13:05:00	
39	Long Beach	Active	2025-03-30 13:10:00	
40	Omaha	Maintenance	2025-03-30 13:15:00	
41	Raleigh	Active	2025-03-30 13:20:00	
42	Miami	Inactive	2025-03-30 13:25:00	
43	Oakland	Active	2025-03-30 13:30:00	
44	Minneapolis	Maintenance	2025-03-30 13:35:00	
45	Tulsa	Active	2025-03-30 13:40:00	
46 I	Cleveland	Inactive	2025-03-30 13:45:00	
47	Wichita	Active	2025-03-30 13:50:00	
48	New Orleans	Maintenance	2025-03-30 13:55:00	
49	Arlington	Active	2025-03-30 14:00:00	
50 j	Bakersfield	Inactive	2025-03-30 14:05:00	
		·	<del> </del>	