TABLE/CONSTRAINTS CREATION QUERIES

Sr	Action	SQL Query
.no		
1	Creating a database	CREATE DATABASE Dart
2	Person Table	CREATE TABLE `person` (`p_id` varchar(4) NOT NULL, `f_name` VARCHAR(120) NOT NULL, `m_name` VARCHAR(120), `l_name` VARCHAR(120) NOT NULL, `p_address` VARCHAR(300) NOT NULL, `gender` VARCHAR(10) NOT NULL , `date_of_birth` DATE NOT NULL, PRIMARY KEY (`p_id`));
3	Add age, p_id, gender constraint	DELIMITER // CREATE TRIGGER agecheck BEFORE INSERT ON person FOR EACH ROW IF TIMESTAMPDIFF(YEAR, NEW.date_of_birth, CURDATE()) < 16 THEN SIGNAL SQLSTATE '45000'
4	Travel card	CREATE TABLE `travelcard` (`card_id` INT NOT NULL AUTO_INCREMENT, `date_of_issue` DATE NOT NULL, `date_of_expiry` DATE NOT NULL, PRIMARY KEY (`card_id`));
5	Terminal table	CREATE TABLE `terminal` (`terminal_id` INT NOT NULL AUTO_INCREMENT , `terminal_loc` VARCHAR(300) NOT NULL , PRIMARY KEY (`terminal_id`));

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CREATE TABLE `timetable` (
    Timetable table
                         `tt id` varchar(4),
                         `day` VARCHAR(10) NOT NULL , `start time`
                    TIME NOT NULL ,
                         `end time` TIME NOT NULL ,
                        `interval` INT NOT NULL ,
                        PRIMARY KEY (`tt_id`)
                    DELIMITER //
    tt id constraint
                    CREATE TRIGGER tt id check
                    BEFORE INSERT ON timetable
                    FOR EACH ROW
                        IF (NEW.tt id REGEXP '^(DT)?[0-9]{2}$') = 0
                    THEN
                                    SIGNAL SQLSTATE '45000'
                                         SET MESSAGE TEXT = 'tt id
                    format is wrong';
                       ELSEIF NEW.day not in ('M', 'T', 'W', 'Th',
                    'F', 'Sat', 'Sun') THEN
                                    SIGNAL SQLSTATE '45000'
                                         SET MESSAGE TEXT = 'day value
                    is wrong';
                        END IF;//
                    CREATE TABLE `route` (
    Route table
                         `route id` INT NOT NULL AUTO INCREMENT ,
                         `route name` VARCHAR(120) NOT NULL ,
                        PRIMARY KEY (`route id`)
                    );
                    CREATE TABLE `payment` (
    Payment table
                         `payment id` INT NOT NULL AUTO INCREMENT ,
                         `payment method` VARCHAR(120) NOT NULL ,
                         payment amount FLOAT NOT NULL ,
                        PRIMARY KEY ('payment id')
                    );
                    DELIMITER //
10
    payment method
                    CREATE TRIGGER payment method check
    constraint
                    BEFORE INSERT ON payment
                    FOR EACH ROW
                          IF NEW.payment method not in ('cash',
                    'card') THEN
                          SIGNAL SQLSTATE '45000'
                                SET MESSAGE TEXT = 'payment method
                    value is wrong';
                        END IF;//
```

11	Ticket	CREATE TABLE `ticket` (
11	TICKEL	`ticket id` INT NOT NULL AUTO INCREMENT ,
		`bus id` INT NOT NULL ,
		`date` DATE NOT NULL ,
		`start_time` TIME NOT NULL ,
		PRIMARY KEY (`ticket_id`));
12	Employee	CREATE TABLE Employee(
		e id varchar(4) NOT NULL ,
		start date DATE Not NULL ,
		type VARCHAR(20) NOT NULL,
		PRIMARY KEY(e id),
		FOREIGN KEY(e id) REFERENCES person(p id)
);
13	Employee type	DELIMITER //
1 - 3	constraint	CREATE TRIGGER employee type check
	CONSTIANT	BEFORE INSERT ON employee
		FOR EACH ROW
		IF NEW.type not in ('Ticket Collector', 'Bus
		Driver', 'Staff') THEN
		SIGNAL SQLSTATE '45000'
		SET MESSAGE_TEXT = 'employee type
		<pre>value is wrong';</pre>
		END IF;//
14	Bus Table	CREATE TABLE Bus (
		bus no INT NOT NULL,
		lic no VARCHAR(20) NOT NULL,
		no of seats INT NOT NULL,
		tt id VARCHAR(4) NOT NULL,
		route id INT NOT NULL,
		e id varchar(4) NOT NULL,
		PRIMARY KEY (bus no),
		FOREIGN KEY(tt id) REFERENCES
		timetable(tt_id),
		FOREIGN KEY(route_id) REFERENCES
		route(route_id),
		FOREIGN KEY(e_id) REFERENCES employee(e_id)
);
15	Astar Passenger	CREATE TABLE Astar_passenger(
	table	p_id varchar(4) NOT NULL,
		card id INT,
		PRIMARY KEY(p_id),
		FOREIGN KEY(p id) REFERENCES person(p id),
		FOREIGN KEY(card id) REFERENCES
		travelcard (card id)
);
		/ /

16	Pass Table	CREATE TABLE pass (
16	rass lable	pass id INT NOT NULL,
		month varchar(20) NOT NULL,
		pass expiry DATE NOT NULL,
		p id varchar(4) NOT NULL,
		PRIMARY KEY (pass id, month),
		FOREIGN KEY (p id) REFERENCES
		_
		astar_passenger(p_id)
);
17	Person phone table	CREATE TABLE person phone(
1,	r croon phone table	p id varchar(4) Not NULL,
		phone INT NOT NULL,
		PRIMARY KEY(p id,phone),
		FOREIGN KEY(p id) REFERENCES person(p id)
);
		, , , , , , , , , , , , , , , , , , ,
18	mobile number	DELIMITER //
	constraint	CREATE TRIGGER phone_check
		BEFORE INSERT ON person_phone
		FOR EACH ROW
		IF (NEW.phone < 100000000) THEN
		SIGNAL SQLSTATE '45000'
		SET MESSAGE_TEXT = 'PHONE
		NUMBER is wrong';
		END IF;//
19	AClass Passenger	CREATE TABLE AClass_passenger(
		p_id varchar(4) NOT NULL,
		pass_id INT,
		PRIMARY KEY(p_id),
		FOREIGN KEY(p_id) REFERENCES person(p_id),
		FOREIGN KEY(pass_id) REFERENCES pass(pass_id)
);
20	Children L. L.	CDEAME MADIE Children/
20	Children table	CREATE TABLE Children(
		p_id varchar(4) NOT NULL,
		name varchar(50) NOT NULL,
		PRIMARY KEY(p_id, name),
		FOREIGN KEY (p_id) REFERENCES
		<pre>aclass_passenger(p_id));</pre>
21	No of children	DELIMITER //
	constraint	CREATE TRIGGER children no check
	Constraint	BEFORE INSERT ON children
		FOR EACH ROW
		IF (select COUNT(*) from children WHERE p id
		= NEW.p id)= 5 THEN
		SIGNAL SQLSTATE '45000'
		SET MESSAGE TEXT = 'An aclass
		passenger cannot have more than 5 children';
		END IF;//
I		

22	Dromotion table	CREATE TABLE Promotion(
22	Promotion table	pass id INT NOT Null,
		pass_id int not null, pr id int not null,
		<pre>pr_description VARCHAR(60), PRIMARY KEY(pass id, pr id),</pre>
		FOREIGN KEY(pass_id) REFERENCES pass(pass_id)
22	C);
23	Status	CDEAME MADIE Chatus /
		CREATE TABLE Status (
		bus_no INT NOT NULL,
		<pre>start_time TIME NOT NULL, date DATE NOT NULL,</pre>
		status VARCHAR(10) NOT NULL,
		PRIMARY KEY (bus_no, start_time, date),
		FOREIGN KEY(bus_no) REFERENCES bus(bus_no)
2.4	D.C. and J.D.C.	CREAME MARIE Drives /
24	Drives table	CREATE TABLE Drives (e id varchar(4) NOT NULL,
		bus_no INT NOT NULL,
		hour TIME NOT NULL,
		date DATE NOT NULL,
		PRIMARY KEY (bus_no, e_id, date),
		FOREIGN KEY (bus_no) REFERENCES bus (bus_no),
		FOREIGN KEY(e_id) REFERENCES employee(e_id)
25	5 1:);
25	Parking table	CREATE TABLE Parking (
		terminal_id INT NOT NULL,
		bus_no INT NOT NULL,
		time TIME NOT NULL,
		date DATE NOT NULL,
		PRIMARY KEY (bus_no, terminal_id,date),
		FOREIGN KEY (bus_no) REFERENCES bus (bus_no),
		FOREIGN KEY(terminal_id) REFERENCES
		terminal(terminal_id)
	Constitution	CDEATE TABLE `cucat` (
26	Guest table	CREATE TABLE `guest` (
		`guest_SSN` varchar(15) NOT NULL ,
		`guest_name` VARCHAR(30) NOT NULL ,
		`guest_address` VARCHAR(120) NOT NULL ,
		`guest_contact` INT(10) NOT NULL ,
		PRIMARY KEY (`guest_SSN`)
	CCN (); DELIMITER //
27	SSN format	
	Constraint	CREATE TRIGGER ssn_check
		BEFORE INSERT ON guest
		FOR EACH ROW
		IF (NEW.guest_SSN REGEXP '^[0-9]{3}-[0-9]{2}-
		$[0-9]\{4\}$ \$') = 0 THEN
		SIGNAL SQLSTATE '45000'
		SET MESSAGE_TEXT = 'guest_ssn
		format is wrong';

		END IF;//
20	Carllan	CDEAME MADIE Cucch low/
28	Guest log	CREATE TABLE Guest_log(passenger id varchar(4) NOT NULL,
		month varchar(20) NOT NULL,
		month trip no INT(4) NOT NULL,
		guest id varchar(20) NOT NULL,
		guest SSN varchar(15) NOT NULL,
		PRIMARY KEY (passenger id, month,
		month trip no),
		FOREIGN KEY(passenger id) REFERENCES
		astar_passenger(p_id),
		FOREIGN KEY(guest_SSN) REFERENCES
		guest(guest_SSN)
);
29	No of guests per	DELIMITER //
	passenger per	CREATE TRIGGER guest_log_check
	month constraint	BEFORE INSERT ON guest_log
		FOR EACH ROW
		<pre>IF (select COUNT(*) from guest_log WHERE passenger id = NEW.passenger id AND month =</pre>
		passenger_id - NEW.passenger_id AND month - NEW.month) = 4
		SIGNAL SQLSTATE '45000'
		SET MESSAGE TEXT = 'A
		passenger cannot have more than 4 guests in a
		month';
		END IF;//
30	Bus Stop	CREATE TABLE Bus stop (
	·	route_id INT NOT NULL,
		stop_name varchar(30) NOT NULL,
		arrival_time TIME NOT NULL,
		PRIMARY KEY(route_id, stop_name),
		FOREIGN KEY(route_id) REFERENCES
		route(route_id)
);
31	Sell Table	CREATE TABLE sell(
		<pre>payment_id INT NOT NULL, ticket id INT NOT NULL,</pre>
		e id varchar(4) NOT NULL,
		p id varchar(4) NOT NULL,
		PRIMARY KEY(payment id, ticket id, e id, p id),
		FOREIGN KEY(ticket id) REFERENCES
		ticket(ticket id),
		FOREIGN KEY (payment id) REFERENCES
		payment (payment_id),
		FOREIGN KEY(e_id) REFERENCES employee(e_id),
		FOREIGN KEY(p_id) REFERENCES person(p_id)
);