

Database Midterm Assignment report

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Table: vehicle list



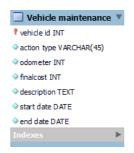
vehicle id : vehicle's id

registration : vehicle's registration number manufacturer : vehicle's manufacturer

color: vehicle's color

passanger capacity: the number of passengers on board

Table: vehicle maintenance



vehicle id : vehicle's id

action type: type of maintenance or reapair

odometer : vehicle's odometer

finalcost: total costs

description: maintenance(repair) details start date: when maintenance(repair) start end date: when maintenance(repair) end

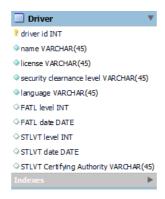
Table : official



official id : official's id coutry : official's country language ; official's language

role : official's role name : official's name

Table : driver



driver id : driver's id name : driver's name license : driver's license

security clearnance level : driver's security clearnance level

language : driver's language

FATL level: First Aid Training Licence level, The driver may not be qualified

FATL date: when pass FATL test

STLVT level: security training licence for the VIP transport level, The driver may not be qualified

STLVT date : when pass STLVE test

 ${\bf STLVT} \ {\bf Certifying} \ {\bf Authority}: institution \ that \ who \ can \ give \ qualification$

Table: booking service



booking id: booking service's id

booking reference number: the number of booking reference

pickup location: a place to ride dropoff location: a place to get off

driver id : driver's id

official id : official's id

start time : departure time

end time : time of arrival

start odometer : odometer before driving end odometer : odometer after driving

vehicle id : vehicle's id

Table - Location



location id : location's id address : location's address name : location's name

type : location's type (ex. park, hotel, station, \ldots)

```
CREATE TABLE 'vehicle list' (
    'vehicle id' int(11) NOT NULL,
    'registration' varchar(45) DEFAULT NULL,
    'manufacturer' varchar(45) DEFAULT NULL,
    'model' varchar(45) DEFAULT NULL,
    'color' varchar(45) DEFAULT NULL,
    'current odometer' int(11) DEFAULT NULL,
    'passanger capacity' int(11) DEFAULT NULL,
    'primary KEY ('vehicle id')
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

this is vehicle list table's code.

primary key is [vehicle id]

	vehicle id	registration	manufacturer	model	color	current odometer	passanger capacity
•	1000	2001ABC	Volvo	XC90 SE	Silver	4350	4
	1001	2006AFD	Kia	K7	Black	2195	4
	1002	2021AHR	Telsa	2020 F	White	590	4
	1003	2020DXF	Ford	Transit	Silver	974	2
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
CREATE TABLE `vehicle maintenance` (
  `vehicle id` int(11) NOT NULL,
  `action type` varchar(45) NOT NULL,
  `odometer` int(11) NOT NULL,
  `finalcost` int(11) NOT NULL,
  `description` text NOT NULL,
  `start date` date NOT NULL,
  `end date` date NOT NULL,
  `end date` date NOT NULL,
  `CONSTRAINT `fk_Vehicle id`),
  CONSTRAINT `fk_Vehicle maintenance_vehicle list1` FOREIGN KEY (`vehicle id`) REFERENCES `vehicle list` (`vehicle id`) ON DELETE NO A
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

this is vehicle maintenance table's code

primary key is [vehicle id]

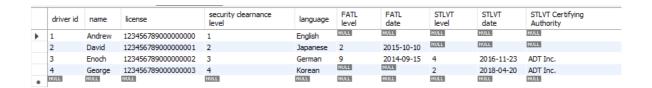
foreign key is [vehicle id] in [vehicle list table - vehicle id]

	vehicle id	action type	odometer	finalcost	description	start date	end date
•	1000	M	4350	300	Tire replacement	2022-10-15	2022-10-15
	1001	R	2195	1000	Engine replacement	2022-10-17	2022-10-18
	150000	NULL	NUMBER	NULL I	SUUT	NUMBER	NULL

```
CREATE TABLE 'driver' (
  'driver id' int(11) NOT NULL,
  'name' varchar(45) NOT NULL,
  'license' varchar(45) NOT NULL,
  'security clearnance level' varchar(45) NOT NULL,
  'language' varchar(45) NOT NULL,
  'FATL level' int(11) DEFAULT NULL,
  'FATL date' date DEFAULT NULL,
  'STLVT level' int(11) DEFAULT NULL,
  'STLVT date' date DEFAULT NULL,
  'STLVT Certifying Authority' varchar(45) DEFAULT NULL,
  PRIMARY KEY ('driver id')
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

this is driver table's code

primary key is [driver id]



```
CREATE TABLE `official` (
 `official id` int(11) NOT NULL,
 `country` varchar(45) DEFAULT NULL,
 `language` varchar(45) DEFAULT NULL,
```

```
`role` varchar(45) DEFAULT NULL,
`city` varchar(45) DEFAULT NULL,
`name` varchar(45) DEFAULT NULL,
PRIMARY KEY (`official id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

this is vehicle official table's code

primary key is [official id]

	official id	country	language	role	city	name
•	1	KR	ko	coach	23010520	'Kim Min Ho'
	2	US	en	judge	23060500	'Charles Otto Puth Jr.
	3	DE	de	coach	23070580	Hermann Karl Hesse
	4	JP	ja	psysician	23060540	Ken Shimizu
	5	IN	hi	psysician	23060670	'Mohammed Aamir Hussain Khan

```
CREATE TABLE `booking service` (
    `booking id` int(11) NOT NULL,
    `booking reference number` int(11) NOT NULL,
    `pickup location` int(11) NOT NULL,
`dropoff location` int(11) NOT NULL,
    `driver id` int(11) NOT NULL,
   `official id` int(11) NOT NULL,
    `start time` datetime NOT NULL,
    'end time' datetime NOT NULL,
    `start odometer` int(11) NOT NULL,
    `end odometer` int(11) NOT NULL,
    `vehicle id` int(11) NOT NULL,
   PRIMARY KEY (`booking id`),
   KEY `fk_booking_location_idx` (`pickup location`),
KEY `fk_booking_location1_idx` (`dropoff location`),
   KEY `fk_booking_driver1_idx` (`driver id`),
KEY `fk_booking_Official1_idx` (`official id`),
   KEY `fk_booking_Vehicle_info1_idx` (`vehicle id`),
   CONSTRAINT `fk_booking_Official1` FOREIGN KEY ('official id') REFERENCES 'official' ('official id') ON DELETE NO ACTION ON UPDATE NO
  CONSTRAINT 'fk_booking_Vehicle_info1' FOREIGN KEY ('vehicle id') REFERENCES 'vehicle list' ('vehicle id') ON DELETE NO ACTION ON UPDATE ON CONSTRAINT 'fk_booking_driver1' FOREIGN KEY ('vehicle id') REFERENCES 'driver' ('driver id') ON DELETE NO ACTION ON UPDATE NO ACTION, CONSTRAINT 'fk_booking_location' FOREIGN KEY ('pickup location') REFERENCES 'location' ('location id') ON DELETE NO ACTION ON UPDATE CONSTRAINT 'fk_booking_location' FOREIGN KEY ('dropoff location') REFERENCES 'location' ('location id') ON DELETE NO ACTION ON UPDATE CONSTRAINT 'fk_booking_location' FOREIGN KEY ('dropoff location') REFERENCES 'location' ('location id') ON DELETE NO ACTION ON UPDATE
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

this is vehicle booking service table's code

primary key is [booking id]

- ${\bf 1}$ foreign key is [official id] in [official table official id]
- 2 foreign key is [driver id] in [driver table driver id]
- 3 foreign key is [vehicle id] in [vehicle list table vehicle id]
- 4 foreign key is [pickup location] in [location table location id]
- 5 foreign key is [dropoff location] in [location table location id]

	booking id	booking reference number	pickup location	dropoff location	driver id	official id	start time	end time	start odometer	end odometer	vehicle id
•	1	1	1	2	1	2	2022-10-01 12:00:00	2022-10-01 13:15:00	0	78	1000
	2	2	3	4	2	4	2022-10-03 11:00:00	2022-10-03 15:00:00	0	95	1001
	3	3	5	6	3	3	2022-10-05 14:00:00	2022-10-05 15:10:00	0	49	1002
	NULL	NULL	NULL	HULL	NULL	HULL	NULL	HULL	HULL	NULL	NULL

```
CREATE TABLE `location` (
 `location id` int(11) NOT NULL,
 `address` text NOT NULL,
 `name` varchar(45) NOT NULL,
 `type` varchar(45) NOT NULL,
```

PRIMARY KEY (`location id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8

this is vehicle location table's code primary key is [location id]

	location id	address	name	type
•	1	123, Central-ro, Yeonsu-gu, Incheon, Republic of Korea	Incheon Central Park	Park
	2	43, Songnae-daero, Bucheon-si, Gyeonggi-do, Republic of Korea	Song Nae Station	Station
	3	269, Jemullyang-ro, Jung-gu, Incheon, Republic of Korea	Incheon Station	Station
	4	175, Biryu-daero, Yeonsu-gu, Incheon, Republic of Korea	Song Do Station	Station
	5	15, Gwangjang-ro, Bupyeong-gu, Incheon, Republic of Korea	Bupyeong Station	Station
	6	'271, Gonghang-ro, Jung-gu, Incheon, Republic of Korea	Incheon International Airport	Airport
	NULL	NULL	NULL	NULL

