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1. **Skema database**

* **Traveller (**traveller\_username,traveller\_email, traveller\_password, traveller\_fullname, traveller\_address**)**

Keterangan :

|  |  |  |
| --- | --- | --- |
| **Nama tabel** | **Nama atribut** | **keterangan** |
| Traveller | traveller\_username,traveller\_email, traveller\_password, traveller\_fullname, traveller\_address | Primary key |

* **Event (**traveller\_username*,* location\_id, Loc\_location\_id, event\_id, event\_name, start\_event, end\_event, note**)**

Keterangan :

|  |  |  |
| --- | --- | --- |
| **Nama tabel** | **Nama atribut** | **keterangan** |
| Event | traveller\_username*,*  location\_id,  Loc\_location\_id,  event\_id,  event\_name, start\_event,  end\_event, note | Primary key, foreign key  Primary key, foreign key  Primary key, foreign key  Primary key |

* **Location (**location\_id, latitude, longtitude, location\_name**)**

Keterangan :

|  |  |  |
| --- | --- | --- |
| **Nama tabel** | **Nama atribut** | **keterangan** |
| Location | location\_id,  latitude,  longtitude, location\_name | Primary key |

* **Travel (**traveller\_username, location\_id, Loc\_location\_id, event\_id, transportation\_code, depature\_time**)**

Keterangan :

|  |  |  |
| --- | --- | --- |
| **Nama tabel** | **Nama atribut** | **keterangan** |
| Travel | traveller\_username, location\_id, Loc\_location\_id, event\_id, transportation\_code, depature\_time | Primary key |

* **Transportation\_Mode (**transportation\_code, transportation\_name, transportation\_speed**)**

Keterangan :

|  |  |  |
| --- | --- | --- |
| **Nama tabel** | **Nama atribut** | **keterangan** |
| Transportation\_Mode | Transportation\_code, transportation\_name, transportation\_speed | Primary key |

1. **Bentuk Umum Query di kelas Idao:**

* SQL : INSERT INTO class-name ( class-attribute ) VALUES ( attribute-value-from-object )
* SQL : UPDATE class-name SET ( attribute-name = attribute-value-from-object )
* SQL : DELETE FROM class-name WHERE ( paramName = paramValue )

Keterangan :

Class-name : nama tabel

Class-attribute : nama attribut

Attribut-value-from-object : isi dari suatu attribut yang berasal dari getter object.

1. **Query yang dibutuhkan oleh back-end:**

* SELECT \* FROM

|  |  |  |
| --- | --- | --- |
| **SQL** | **LOKASI** | **FUNGSI** |
| sql = String.join(" ", "SELECT", this.getFieldsStr(), "FROM", this.classModel.getSimpleName().toLowerCase()); | GenericDao | getList |
|  |  |  |

* SELECT \* FROM – WHERE

|  |  |  |
| --- | --- | --- |
| **SQL** | **LOKASI** | **FUNGSI** |
| sql = String.join(" ", "SELECT", this.getFieldsStr(), "FROM", this.classModel.getSimpleName().toLowerCase(),"WHERE", paramName, "= ?"); | GenericDao | GetObject |
|  |  |  |

* UPDATE – SET

|  |  |  |
| --- | --- | --- |
| **SQL** | **LOKASI** | **FUNGSI** |
| mtSql.append("UPDATE ");  mtSql.append(this.classModel.getSimpleName().toLowerCase());  mtSql.append(" SET "); | GenericDao | edit |
|  |  |  |

* DELETE - FROM - WHERE

|  |  |  |
| --- | --- | --- |
| **SQL** | **LOKASI** | **FUNGSI** |
| sql = String.format("DELETE FROM %s WHERE ( %s = ? )",this.classModel.getSimpleName().toLowerCase(), paramName); | GenericDao | delete |

* INSERT

|  |  |  |
| --- | --- | --- |
| **SQL** | **LOKASI** | **FUNGSI** |
| mtSql.append("INSERT INTO "); mtSql.append(this.classModel.getSimpleName().toLowerCase());  mtSql.append("( ");  mtSql.append(String.join(",", keySet));  mtSql.append(" ) VALUES ( "); | GenericDao | create |
|  |  |  |