

**FINAL PROJECT**  
**MATA KULIAH KONSEP BASIS DATA**



**OLEH :**

**KELOMPOK 8 IMPLEMENTASI WEBSITE DATABASE  
SEBAGAI MANAJEMEN SISTEM INTERNAL PADA KEBUN  
BINATANG**

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2022**

### Tabel Pembagian Tugas

NPM	Nama Mahasiswa	Kontribusi
<b>21083010007</b>	<b>Allan Ruhui Fatmah Sari</b>	<ul style="list-style-type: none"><li>• Penulisan Normalisasi Data Bentuk UNF menjadi 1NF dan 2NF</li><li>• Membuat Database</li><li>• Membuat Implementasi SQL</li></ul>
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<b>21083010032</b>	<b>Angela Lisanthoni</b>	<ul style="list-style-type: none"><li>• Pembuatan Diagram ERD</li><li>• Penulisan Normalisasi Data Bentuk 2NF menjadi 3NF</li><li>• Membuat Database</li><li>• Membuat Web</li></ul>
<b>21083010034</b>	<b>Gema Khusnul Ma'rifah</b>	<ul style="list-style-type: none"><li>• Penulisan Laporan</li><li>• Penulisan Normalisasi Data Bentuk 2NF menjadi 3NF</li><li>• Input Data pada Database</li><li>• Membuat Implementasi SQL</li></ul>

# **IMPLEMENTASI WEBSITE DATABASE SEBAGAI MANAJEMEN SISTEM INTERNAL PADA KEBUN BINATANG DATABASE PADA KEBUN BINATANG**

## **LATAR BELAKANG**

Menurut Perhimpunan Kebun Binatang Se-Indonesia (PKBSI), kebun binatang adalah suatu tempat atau wadah yang berbentuk taman dan atau ruang terbuka hijau dan atau jalur hijau yang menjadi tempat untuk mengumpulkan, memelihara kesejahteraan dan meperagakan satwa liar untuk umum dan yang diatur penyelenggaranya sebagai lembaga konservasi ex-situ. Satwa liar di kebun binatang ini termasuk satwa liar yang dilindungi serta tidak dilindungi oleh Peraturan Perundang-undangan dan akan dipertahankan kemurnian jenisnya dengan cara pemeliharaan serta penangkaran diluar habitat aslinya.

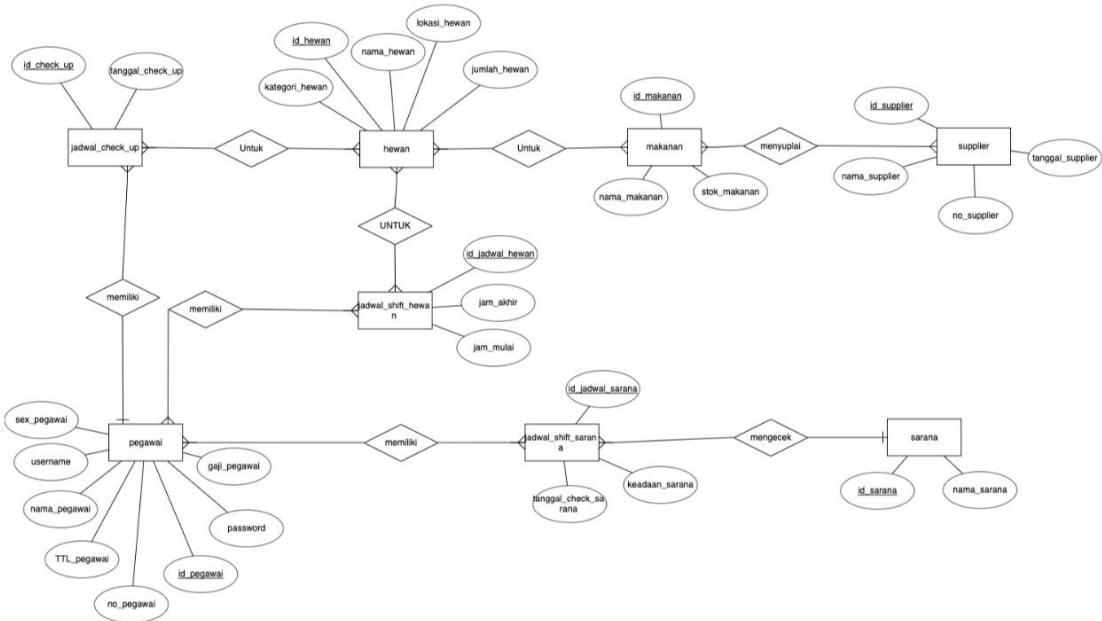
Salah satu fungsi serta manfaat dari kebun binatang yaitu sebagai konservasi penelitian dan pelestarian satwa-satwa liar dimana sebagai tempat penangkaran satwa langka di luar habitatnya dan menjadi benteng terakhir penyelamatan satwa, sebagai upaya dalam menyelamatkan satwa yang terancam punah, menjaga dan melestarikan kemurnian genetik, serta tempat penitipan satwa-satwa langka yang dilindungi oleh negara.

Dalam mengelola kebun binatang diperlukan sebuah sistem pengelolaan yang baik. Pengaturan yang perlu diperhatikan pada sistem pengelolaan kebun binatang yaitu diantaranya data hewan, data pegawai, data penyimpanan makanan hewan, data jadwal pergantian jam kerja pegawai, data jadwal pengecekan kesehatan hewan dan lain sebagainya. Dalam hal ini diperlukan penggunaan basis data dalam pengelolaan sistem internal kebun binatang yang ditujukan untuk mempermudah pekerjaan dalam penyimpanan data dan menunjukkan korelasi antar data yang satu dengan yang lainnya.

Oleh karena itu dalam menerapkan penggunaan basis data ini yaitu dengan dibuatnya sebuah website mengenai basis data yang mencakup persoalan-persoalan mengenai pendataan pada kebun binatang guna mempermudah pendataan bagi sistem pengelolaan kebun binatang.

# DESAIN ERD

## IMPLEMENTASI WEBSITE DATABASE SEBAGAI MANAJEMEN SISTEM INTERNAL PADA KEBUN BINATANG



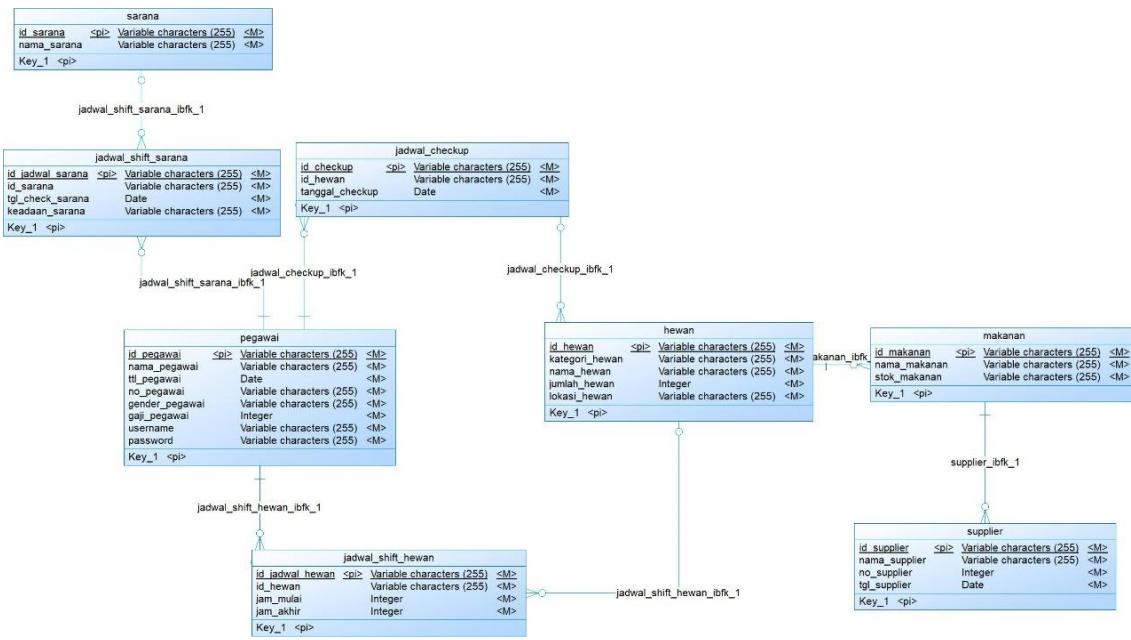
Terdapat 8 entitas dengan masing-masing atributnya sebagai berikut:

- |                            |   |
|----------------------------|---|
| <b>Hewan</b>               | ( <u>id_hewan</u> , kategori_hewan, nama_hewan, lokasi_hewan, jumlah_hewan)                                 |
| <b>Makanan</b>             | ( <u>id_makanan</u> , nama_makanan, stok_makanan)   |
| <b>Supplier</b>            | ( <u>id_supplier</u> , nama_supplier, no_supplier, tanggal_supplier)  |
| <b>Pegawai</b>             | ( <u>id_pegawai</u> , sex_pegawai, username, nama_pegawai, TTL_pegawai, no_pegawai, password, gaji_pegawai) |
| <b>Sarana</b>              | ( <u>id_sarana</u> , nama_sarana)   |
| <b>Jadwal_Check_Up</b>     | ( <u>id_check_up</u> , tanggal_check_up)  |
| <b>Jadwal_Shift_Sarana</b> | ( <u>id_jadwal_sarana</u> , tanggal_check_sarana, keadaan_sarana)   |
| <b>Jadwal_Shift_Hewan</b>  | ( <u>id_jadwal_hewan</u> , jam_akhir, jam_mulai)  |

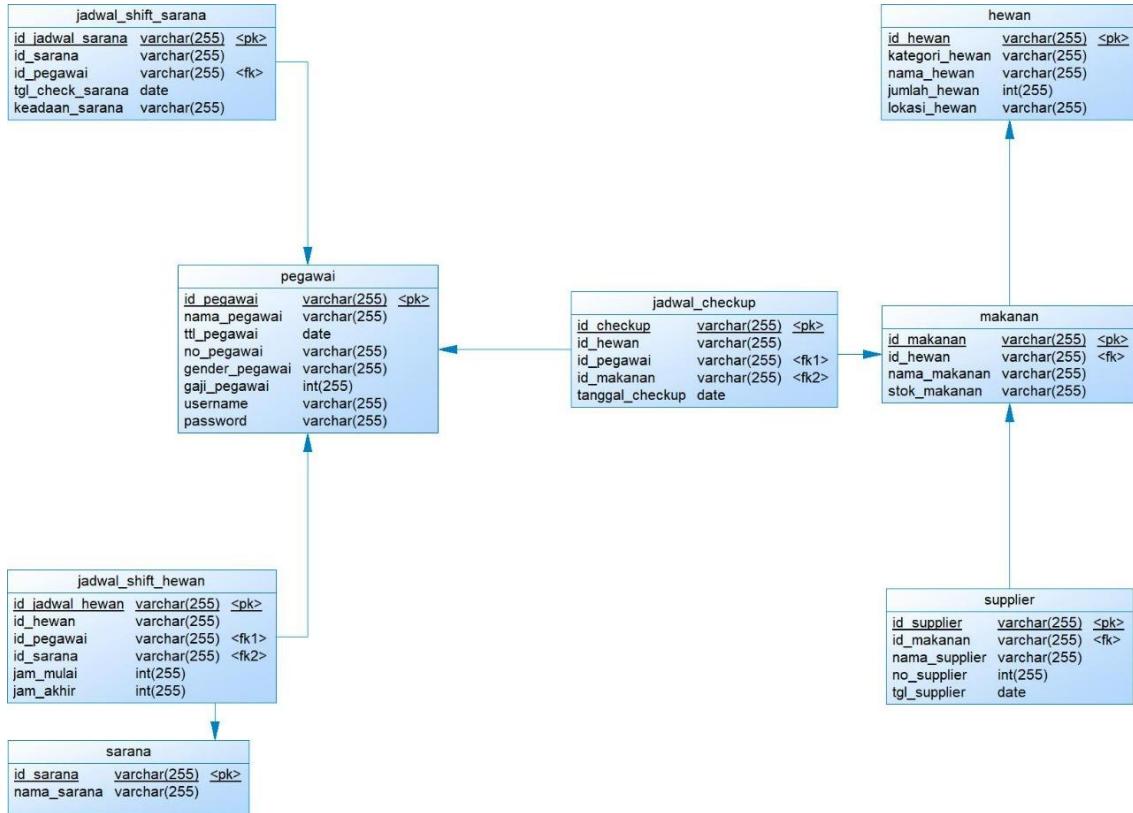
# **DESAIN CDM PDM**

## **IMPLEMENTASI WEBSITE DATABASE SEBAGAI MANAJEMEN SISTEM INTERNAL PADA KEBUN BINATANG**

CDM



## PDM



# NORMALISASI DATA

## IMPLEMENTASI WEBSITE DATABASE SEBAGAI MANAJEMEN

### SISTEM INTERNAL PADA KEBUN BINATANG

Normalisasi data berdasarkan pada ERD yang telah dibuat:

**Tabel Bentuk UNF**

Tabel UNF adalah tabel yang belum ternormalisasikan sehingga masih banyak redundan data dan pembacaan data yang kurang maksimal.

id_hewan	kategori_hewan	nama_hewan	lokasi_hewan	jumlah_hewan	id_makanan	nama_makanan	stok_makanan	id_supplier	nama_supplier	no_supplier	tanggal_supplier	id_sarana	nama_sarana
M-1	Mamalia	Singa	Afrika-1	3	DG-1	Daging Sapi	20 kg	DG-145	Toni	8,1235E+10	24-Mar-2022	PG	Pagar dari Pengunjung
M-2	Mamalia	Lumba-lumba	Aquarium-3	2	IK-1	Ikan	15 kg	IK-150	Risa	8,1235E+10	23-Mar-2022	KP	Kursi Pengunjung
A-1	Aves	Burung Merak	Taman-2	5	SR-4	Jangkrik	3 kg	SR-402	Nela	8,1235E+10	21-Mar-2022	KK	Kunci Keamanan Satwa
A-2	Aves	Burung Unta	Taman-4	5	SY-6	Kangkung	20 ikat	SY-613	Dedi	8,1235E+10	23-Mar-2022	TM	Tempat Makan Satwa

pegawai utk dokter													
id_check_up	id_pegawai	nama_pegawai	TTL_pegawai	no_pegawai	sex_pegawai	gaji_pegawai	username	password	tanggal_check_up				
M-1CU1	D-1	Ariyanto	20-Jun-1992	8,1235E+10	Laki	5.000.000	ariyantodmamalia	ao*200692	14-Feb-2022				
M-2CU1	D-1	Ariyanto	20-Jun-1992	8,1235E+10	Laki	5.000.000	ariyantodmamalia	ao*200692	21-Feb-2022				
A-1CU3	D-2	Karina	04-Nov-1982	8,1235E+10	Perempuan	5.000.000	karinadaves	ka*041082	10-Mar-2022				
A-1CU2	D-2	Karina	04-Nov-1982	8,1235E+10	Perempuan	5.000.000	karinadaves	ka*041082	10-Mar-2022				

pegawai keeper													
id_jadwal_hewan	id_pegawai	nama_pegawai	TTL_pegawai	no_pegawai	sex_pegawai	gaji_pegawai	username	password	jam_mulai	jam_akhir			
M-1JH1	K-1	Jatmiko	30 Juli 1985	8,1235E+10	Laki-laki	3.000.000	jatmikokmamalia	jo*300785	7	12			
M-2JH2	K-2	Rina	17-Sep-1990	8,1235E+10	Perempuan	3.000.000	rinakmamalia	ra*170990	12	17			
A-1JH1	K-3	Kelly	29-Apr-2000	8,1235E+10	Perempuan	2.500.000	kellykaves	ky*290420	7	12			
A-2JH2	K-4	Arif	06-Jan-1999	8,1235E+10	Laki	2.500.000	arifikaves	af*060199	12	17			

pegawai sarana													
id_jadwal_sarana	id_pegawai	nama_pegawai	TTL_pegawai	no_pegawai	sex_pegawai	gaji_pegawai	username	password	tanggal_check_sarana	keadaan_sarana			
PG-JS2	S-1	Bambang	15-Agt-1977	8,1235E+10	Laki	3.000.000	bambangsarana1	bg*150877	01-Mar-2022	Baik			
KP-JS2	S-1	Bambang	15-Agt-1977	8,1235E+10	Laki	3.000.000	bambangsarana1	bg*150877	01-Mar-2022	Rusak			
KK-JS1	S-2	Joko	29-Apr-1983	8,1235E+10	Laki	2.500.000	jokosarana2	jo*290483	01-Mar-2022	Baik			
TM-JS1	S-2	Joko	29-Apr-1983	8,1235E+10	Laki	2.500.000	jokosarana2	jo*290483	01-Mar-2022	Baik			

*Keterangan: Tabel UNF diatas merupakan satu kesatuan, untuk kepentingan dokumentasi tabel dibuat terpisah menjadi beberapa bagian agar mudah dibaca.*

Selanjutnya mengonversi Tabel bentuk UNF menjadi 1NF

### Tabel Bentuk 1NF

Bentuk 1NF merupakan bentuk pertama dari proses normalisasi, yang memotong tabel UNF menjadi dua tabel terlebih dahulu.

Tentukan kolom mana yang merupakan primary key, dimana dalam konteks adalah kolom bewarna kuning sedangkan, kolom bewarna biru berarti menandakan bahwa kolom tersebut bersifat dependensi transitif.

Primary key di tabel tersebut adalah: id\_pegawai, id\_hewan, id\_makanan, dan id\_sarana.

Tabel 1

<b>id_pegawai</b>	nama_pegawai	TTL_pegawai	no_pegawai	sex_pegawai	gaji_pegawai	username	password
D-1	Ariyanto	20-Jun-1992	81234567810	Laki	5.000.000	ariyantodmamalia	ao*200692
D-2	Karina	04-Nov-1982	81234567896	Perempuan	5.000.000	karinadaves	ka*041082
K-1	Jatmiko	30-Jul-1985	81234567216	Laki	3.000.000	jatmikokmamalia	jo*300785
K-2	Rina	17-Sep-1990	81234567218	Perempuan	3.000.000	rinakmamalia	ra*170990
K-3	Kelly	29-Apr-2000	81234567329	Perempuan	2.500.000	kellykaves	ky*290420
K-4	Arif	06-Jan-1999	81234567322	Laki	2.500.000	arifikaves	af*060199
S-1	Bambang	15-Agt-1977	81234567893	Laki	3.000.000	bambangsarana1	bg*150877
S-2	Joko	29-Apr-1983	81234567895	Laki	2.500.000	jokosarana2	jo*290483

Tabel 2

<b>id_hewan</b>	kategori_hewan	nama_hewan	lokasi_hewan	jumlah_hewan	<b>id_makanan</b>	nama_makanan	stok_makanan	<b>id_supplier</b>	nama_supplier	no_supplier	tanggal_supplier
M-1	Mamalia	Singa	Afrika-1	3	DG-1	Daging Sapi	20Kg	DG-145	Toni	81234567834	24-Mar-2022
M-2	Mamalia	Lumba-lumba	Aquarium-3	2	IK-1	Ikan	15kg	IK-150	Risa	81234567820	23-Mar-2022
A-1	Aves	Burung Merak	Taman-2	5	SR-4	Jangkrik	3kg	SR-402	Nela	81234567845	21-Mar-2022
A-2	Aves	Burung Unta	Taman-4	5	SY-6	Kangkung	20 ikat	SY-613	Dedi	81234567892	23-Mar-2022

<b>id_sarana</b>	nama_sarana	<b>id_check_up</b>	<b>id_pegawai</b>	tanggal_check_up	<b>id_jadwal_hewan</b>	<b>id_pegawai</b>	jam_mulai	jam_akhir	<b>id_jadwal_sarana</b>	<b>id_pegawai</b>	tanggal_check_sarana	keadaan_sarana
PG	Pagar dari Pengunjung	M-1CU1	D-1	14-Feb-2022	M-1JH1	K-1	7	12	PG-JS2	S-1	01-Mar-2022	Baik
KP	Kursi Pengunjung	M-2CU1	D-1	21-Feb-2022	M-2H2	K-2	12	17	KP-JS2	S-1	01-Mar-2022	1 Rusak
KK	Kunci Keamanan Satwa	A-1CU3	D-2	10-Mar-2022	A-1JH1	K-3	7	12	KK-JS1	S-2	01-Mar-2022	Baik
TM	Tempat Makan Satwa	A-1CU2	D-2	10-Mar-2022	A-2H2	K-4	12	17	TM-JS1	S-2	01-Mar-2022	Baik

Keterangan: Tabel 2 pada bentuk 1NF diatas merupakan satu kesatuan, untuk kepentingan dokumentasi tabel dibuat terpisah menjadi beberapa bagian agar mudah dibaca.

## Tabel Bentuk 2NF

Bentuk 2NF merupakan kelanjutan dari tabel 1NF, yang mana pada bagian ini berfokus pada primary key artinya tabel dipisahkan berdasarkan primary keynya. Primary key adalah bagian yang paling unik dan dapat membedakan setiap datanya dengan dependensi fungsionalitasnya berdasarkan primary key adalah sebagai berikut:

### Tabel Pegawai

$\{\text{id\_pegawai}\} \rightarrow (\text{nama\_pegawai}, \text{TTL\_pegawai}, \text{no\_pegawai}, \text{sex\_pegawai}, \text{gaji\_pegawai}, \text{username}, \text{password})$

tabel pegawai							
<b>id_pegawai</b>	nama_pegawai	TTL_pegawai	no_pegawai	sex_pegawai	gaji_pegawai	username	password
D-1	Ariyanto	20-Jun-1992	81234567810	Laki	5.000.000	ariyantodmamalia	ao*200692
D-2	Karina	04-Nov-1982	81234567896	Perempuan	5.000.000	karinadaves	ka*041082
K-1	Jatmiko	30-Jul-1985	81234567216	Laki	3.000.000	jatmikokmamalia	jo*300785
K-2	Rina	17-Sep-1990	81234567218	Perempuan	3.000.000	rinakmamalia	ra*170990
K-3	Kelly	29-Apr-2000	81234567329	Perempuan	2.500.000	kellykaves	ky*290420
K-4	Arif	06-Jan-1999	81234567322	Laki	2.500.000	arifikaves	af*060199
S-1	Bambang	15-Agt-1977	81234567893	Laki	3.000.000	bambangsarana1	bg*150877
S-2	Joko	29-Apr-1983	81234567895	Laki	2.500.000	jokosarana2	jo*290483

### Tabel Hewan

$\{\text{id\_hewan}\} \rightarrow (\text{kategori\_hewan}, \text{nama\_hewan}, \text{lokasi\_hewan}, \text{jumlah\_hewan}, \text{id\_check\_up}, \text{id\_pegawai}, \text{tanggal\_check\_up}, \text{id\_jadwal\_hewan}, \text{id\_pegawai}, \text{jam\_mulai}, \text{jam\_akhir})$

tabel hewan											
<b>id_hewan</b>	kategori_hewan	nama_hewan	lokasi_hewan	jumlah_hewan	<b>id_check_up</b>	<b>id_pegawai</b>	tanggal_check_up	<b>id_jadwal_hewan</b>	<b>id_pegawai</b>	jam_mulai	jam_akhir
M-1	Mamalia	Singa	Afrika-1	3	M-1CU1	D-1	14-Feb-2022	M-1JH1	K-1	7	12
M-2	Mamalia	Lumba-lumba	Aquarium-3	2	M-2CU1	D-1	21-Feb-2022	M-2JH2	K-2	12	17
A-1	Aves	Burung Merak	Taman-2	5	A-1CU3	D-2	10-Mar-2022	A-1JH1	K-3	7	12
A-2	Aves	Burung Unta	Taman-4	5	A-1CU2	D-2	10-Mar-2022	A-2JH2	K-4	12	17

### Tabel Sarana

{id\_sarana} → (nama\_sarana, id\_jadwal\_sarana, id\_pegawai,  
tanggal\_check\_sarana, keadaan\_sarana)

tabel sarana					
<u>id_sarana</u>	nama_sarana	<u>id_jadwal_sarana</u>	<u>id_pegawai</u>	tanggal_check_sarana	keadaan_sarana
PG	Pagar dari Pengunjung	PG-JS2	S-1	01-Mar-2022	Baik
KP	Kursi Pengunjung	KP-JS2	S-1	01-Mar-2022	1 Rusak
KK	Kunci Keamanan Satwa	KK-JS1	S-2	01-Mar-2022	Baik
TM	Tempat Makan Satwa	TM-JS1	S-2	01-Mar-2022	Baik

### Tabel Makanan

{id\_makanan} → (nama\_makanan, stok\_makanan, id\_supplier,  
nama\_supplier, no\_supplier, tanggal\_supplier)

tabel makanan						
<u>id_makanan</u>	nama_makanan	stok_makanan	<u>id_supplier</u>	nama_supplier	no_supplier	tanggal_supplier
DG-1	Daging Sapi	20kg	DG-145	Toni	81234567834	24-Maret-2022
IK-1	Ikan	15kg	IK-150	Risa	81234567820	23-Maret-2022
SR-4	Jangkrik	3kg	SR-402	Nela	81234567845	21-Maret-2022
SY-6	Kangkung	20 ikat	SY-613	Dedi	81234567892	23-Maret-2022

### Tabel Bentuk 3NF

Bentuk 3NF merupakan kelanjutan dari tabel 2NF yang mana pada bagian ini berfokus untuk memisahkan tabel yang masih terdapat dependensi transitif. Dependensi transitif adalah jenis hubungan dependensi fungsionalitas yang mana terhubung dan terhubung lagi dengan dilambangkan A-> B -> C.

Dependensi transitif pada tabel ini, diantaranya:

{id\_hewan} → (id\_check\_up, id\_jadwal\_hewan).

{id\_sarana} → (id\_jadwal\_sarana).

{id\_makanan} → (id\_supplier).

Sehingga didapatkan hasil akhirnya sebagai berikut:

### Tabel Pegawai:

tbl pegawai								
<u>id_pegawai</u>	nama_pegawai	TTL_pegawai	no_pegawai	sex_pegawai	gaji_pegawai	username	password	
D-1	Ariyanto	20-Jun-1992	8,1235E+10	Laki	5.000.000	ariyantodmamalia	ao*200692	
D-2	Karina	04-Nov-1982	8,1235E+10	Perempuan	5.000.000	karinadaves	ka*041082	
K-1	Jatmiko	30-Jul-1985	8,1235E+10	Laki	3.000.000	jatmikokmamalia	jo*300785	
K-2	Rina	17-Sep-1990	8,1235E+10	Perempuan	3.000.000	rinakmamalia	ra*170990	
K-3	Kelly	29-Apr-2000	8,1235E+10	Perempuan	2.500.000	kellykaves	ky*290420	
K-4	Arif	06-Jan-1999	8,1235E+10	Laki	2.500.000	arifkaves	af*060199	
S-1	Bambang	15-Agt-1977	8,1235E+10	Laki	3.000.000	bambangsarana1	bg*150877	
S-2	Joko	29-Apr-1983	8,1235E+10	Laki	2.500.000	jokosarana2	jo*290483	

{id\_pegawai} → (nama\_pegawai, TTL\_pegawai, no\_pegawai, sex\_pegawai, gaji\_pegawai, username, password)

### Tabel Hewan:

tabel hewan			
<b>id_relati_hewan_check_up</b>	id_hewan	id_check_up	
M-1/M-1CU1	M-1	M-1CU1	
M-2/M-2CU1	M-2	M-2CU1	
A-1/A-1CU3	A-1	A-1CU3	
A-2/A-1CU2	A-2	A-1CU2	
<b>id_check_up</b>	id_pegawai	tanggal_check_up	
M-1CU1	D-1	14-Feb-2022	
M-2CU1	D-1	21-Feb-2022	
A-1CU3	D-2	10-Mar-2022	
A-1CU2	D-2	10-Mar-2022	
<b>id_relati_hewan_jadwal</b>	id_hewan	id_jadwal_hewan	
M-1/M-1JH1	M-1	M-1JH1	
M-2/M-2JH2	M-2	M-2JH2	
A-1/A-1JH1	A-1	A-1JH1	
A-2/A-2JH2	A-2	A-2JH2	
<b>id_jadwal_hewan</b>	id_pegawai	jam_mulai	jam_akhir
M-1JH1	K-1	7	12
M-2JH2	K-2	12	17
A-1JH1	K-3	7	12
A-2JH2	K-4	12	17

<b>id_hewan</b>	kategori_hewan	nama_hewan	lokasi_hewan
M-1	Mamalia	Singa	Afrika-1
M-2	Mamalia	Lumba-lumba	Aquarium-3
A-1	Aves	Burung Merak	Taman-2
A-2	Aves	Burung Unta	Taman-4

{id\_relati\_hewan\_check\_up} → (id\_hewan, id\_check\_up)

{id\_check\_up} → (id\_pegawai, tanggal\_check\_up)

{id\_relati\_hewan\_jadwal} → (id\_hewan, id\_jadwal\_hewan)

{id\_jadwal\_hewan} → (id\_pegawai, jam\_mulai, jam\_akhir)

{id\_hewan} → (kategori\_hewan, nama\_hewan, lokasi\_hewan)

### Tabel Sarana:

tabel sarana			
<b>id_relasi_sarana</b>	<b>id_sarana</b>	<b>nama_sarana</b>	<b>id_jadwal_sarana</b>
PGPG-JS2	PG	Pagar dari Pengunjung	PG-JS2
KPKP-JS2	KP	Kursi Pengunjung	KP-JS2
KKKK-JS1	KK	Kunci Keamanan Satwa	KK-JS1
TMTM-JS1	TM	Tempat Makan Satwa	TM-JS1

<b>id_jadwal_sarana</b>	<b>id_pegawai</b>	<b>tanggal_check_sarana</b>	<b>keadaan_sarana</b>
PG-JS2	S-1	01-Mar-2022	Baik
KP-JS2	S-1	01-Mar-2022	1 Rusak
KK-JS1	S-2	01-Mar-2022	Baik
TM-JS1	S-2	01-Mar-2022	Baik

{id\_relasi\_sarana} → (id\_sarana, nama\_sarana, id\_jadwal\_sarana)

{id\_jadwal\_sarana} → (id\_pegawai, tanggal\_check\_sarana, keadaan\_sarana)

### Tabel Makanan:

tabel makanan				
<b>id_relasi_makanan_supplier</b>	<b>id_makanan</b>	<b>nama_makanan</b>	<b>stok_makanan</b>	<b>id_supplier</b>
DG-1/DG-145	DG-1	Daging Sapi	20kg	DG-145
IK-1/IK-150	IK-1	Ikan	15kg	IK-150
SR-4/SR-402	SR-4	Jangkrik	3kg	SR-402
SY-6/SY-613	SY-6	Kangkung	20 ikat	SY-613

<b>id_supplier</b>	<b>nama_supplier</b>	<b>no_supplier</b>	<b>tanggal_supplier</b>
DG-145	Toni	81234567834	24-Mar-2022
IK-150	Risa	81234567820	23-Mar-2022
SR-402	Nela	81234567845	21-Mar-2022
SY-613	Dedi	81234567892	23-Mar-2022

{id\_relasi\_makanan\_supplier} → (id\_makanan, nama\_makanan, stok\_makanan, id\_supplier)

{id\_supplier} → (nama\_supplier, no\_supplier, tanggal\_supplier)

# **IMPLEMENTASI SQL**

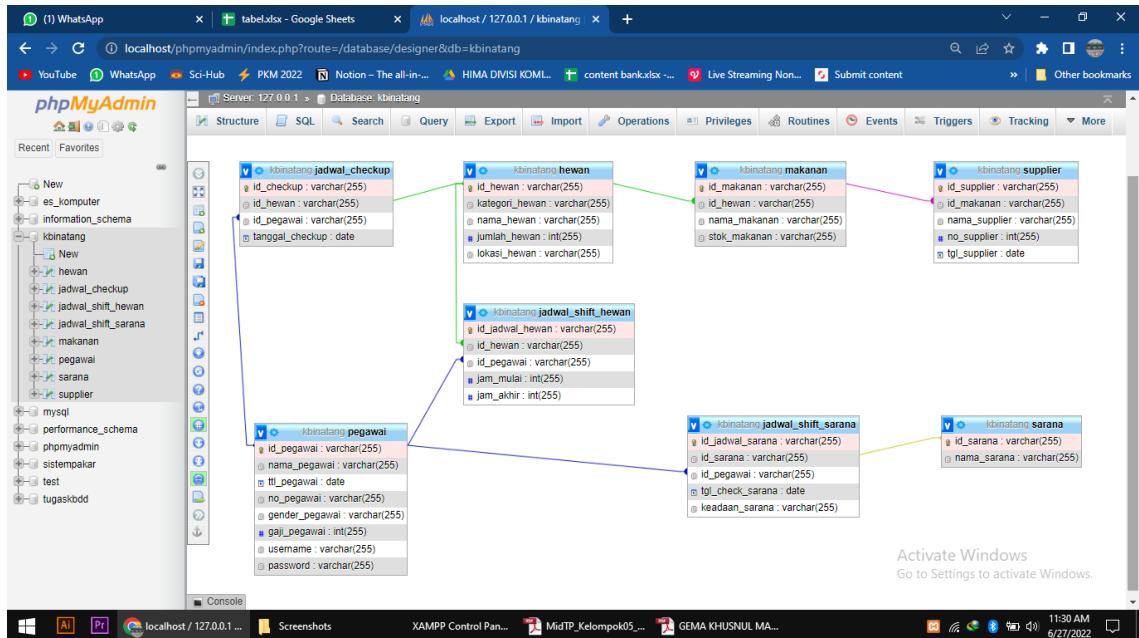
## **IMPLEMENTASI WEBSITE DATABASE SEBAGAI MANAJEMEN**

### **SISTEM INTERNAL PADA KEBUN BINATANG**

#### **Mini World:**

- Terdapat sebuah pegawai yang memiliki banyak jadwal shift sarana, termasuk jenis M:N relationship, sehingga pada table jadwal\_shift\_sarana terdapat field ‘id\_pegawai’ yang merujuk pada field ‘id\_pegawai’ pada table pegawai.
- Terdapat sebuah pegawai yang memiliki banyak jadwal check up, termasuk jenis 1:N relationship, sehingga pada table jadwal\_check\_up terdapat field ‘id\_pegawai’ yang merujuk pada field ‘id\_pegawai’ pada table pegawai.
- Terdapat sebuah pegawai yang memiliki banyak jadwal shift hewan, termasuk jenis M:N relationship, sehingga pada table jadwal\_shift\_hewan terdapat field ‘id\_pegawai’ yang merujuk pada field ‘id\_pegawai’ pada table pegawai.
- Terdapat sebuah sarana yang memiliki banyak jadwal shift sarana, termasuk jenis 1:N relationship, sehingga pada table jadwal\_shift\_sarana terdapat field ‘id\_sarana’ yang merujuk pada field ‘id\_sarana’ pada table sarana.
- Terdapat sebuah hewan yang memiliki banyak jadwal check up, termasuk jenis M:N relationship, sehingga pada table jadwal\_check\_up terdapat field ‘id\_hewan’ yang merujuk pada field ‘id\_hewan’ pada table hewan.
- Terdapat sebuah hewan yang memiliki banyak makanan, termasuk jenis M:N relationship, sehingga pada table makanan terdapat field ‘id\_hewan’ yang merujuk pada field ‘id\_hewan’ pada table hewan.
- Terdapat sebuah makanan yang memiliki banyak supplier, termasuk jenis M:N relationship, sehingga pada table supplier terdapat field ‘id\_makanan’ yang merujuk pada field ‘id\_makanan’ pada table makanan.

## Design Relationship Database Kebun Binatang



## Server Database Kebun Binatang

The screenshot shows the following table structures:

Table	Action	Rows	Type	Collation	Size	Overhead
hewan	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	32.0 Kib	-
jadwal_checkup	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	48.0 Kib	-
jadwal_shift_hewan	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	48.0 Kib	-
jadwal_shift_sarana	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	48.0 Kib	-
makanan	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	32.0 Kib	-
pegawai	Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_general_ci	16.0 Kib	-
sarana	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 Kib	-
supplier	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	32.0 Kib	-
<b>Sum</b>		<b>36</b>	<b>InnoDB</b>	<b>utf8mb4_general_ci</b>	<b>272.0 Kib</b>	<b>0 B</b>

Other visible sections include a filters bar, a create table dialog, and a status bar at the bottom.

## Struktur Tabel Hewan

The screenshot shows the phpMyAdmin interface for the 'hewan' table in the 'kbinatang' database. The table has five columns: id\_hewan, kategori\_hewan, nama\_hewan, jumlah\_hewan, and lokasi\_hewan. The primary key is id\_hewan. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_hewan	varchar(255)	utf8mb4_general_ci		No	None			Change  Drop  More
2	kategori_hewan	varchar(255)	utf8mb4_general_ci		No	None			Change  Drop  More
3	nama_hewan	varchar(255)	utf8mb4_general_ci		No	None			Change  Drop  More
4	jumlah_hewan	int(255)			No	None			Change  Drop  More
5	lokasi_hewan	varchar(255)	utf8mb4_general_ci		No	None			Change  Drop  More

Indexes:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit  Rename  Drop	PRIMARY	BTREE	Yes	No	id_hewan	4	A	No	

Create an index on: 1 columns Go

## Tabel Hewan

Tabel Hewan berisi atribut id\_hewan, kategori\_hewan, nama\_hewan, jumlah\_hewan, dan lokasi\_hewan. Dimana primary keynya adalah id\_hewan.

The screenshot shows the phpMyAdmin interface displaying the data from the 'hewan' table. The data is as follows:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
1	A-1	Aves	Burung Merak	5	Taman-2
2	A-2	Aves	Burung Unta	5	Taman-4
3	M-1	Mamalia	Singa	3	Afrika-1
4	M-2	Mamalia	Lumba-lumba	2	Akuarium-3

## Struktur Tabel Jadwal Check Up

The screenshot shows the phpMyAdmin interface for the 'jadwal\_checkup' table. The table has four columns: id\_checkup, id\_hewan, id\_pegawai, and tanggal\_checkup. The primary key is id\_checkup, and there are foreign keys for id\_hewan and id\_pegawai. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_checkup	varchar(255)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	id_hewan	varchar(255)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	id_pegawai	varchar(255)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	tanggal_checkup	date			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Indexes section:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	id_checkup	4	A	No	
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	id_pegawai	BTREE	No	No	id_pegawai	4	A	No	
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	id_hewan	BTREE	No	No	id_hewan	4	A	No	

## Tabel Jadwal Check Up

Tabel Jadwal check up berisi atribut id\_checkup, id\_hewan, id\_pegawai, dan tanggal\_checkup. Dimana primary keynya adalah id\_checkup dan foreign keynya adalah id\_hewan dan id\_pegawai yang tersambung dengan tabel pegawai serta id\_hewan yang tersambung dengan tabel hewan.

The screenshot shows the phpMyAdmin interface displaying the data from the 'jadwal\_checkup' table. The data is as follows:

	id_checkup	id_hewan	id_pegawai	tanggal_checkup
1	A-1C1U2	A-2	D-2	2022-03-10
2	A-1C1U3	A-1	D-2	2022-03-10
3	M-1C1U1	M-1	D-1	2022-02-14
4	M-2C1U1	M-2	D-1	2022-02-21

## Struktur Tabel Jadwal Shift Hewan

The screenshot shows the phpMyAdmin interface for the 'jadwal\_shift\_hewan' table. The table has five columns: id\_jadwal\_hewan, id\_hewan, id\_pegawai, jam\_mulai, and jam\_akhir. The primary key is id\_jadwal\_hewan. There are three foreign keys: id\_hewan (from the hewan table), id\_pegawai (from the pegawai table), and id\_hewan (from the hewan table again). The table structure includes options for changing, dropping, or adding columns, and a section for indexes.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_jadwal_hewan	varchar(255)	utf8mb4_general_ci	No	None				Change  Drop  More
2	id_hewan	varchar(255)	utf8mb4_general_ci	No	None				Change  Drop  More
3	id_pegawai	varchar(255)	utf8mb4_general_ci	No	None				Change  Drop  More
4	jam_mulai	int(255)		No	None				Change  Drop  More
5	jam_akhir	int(255)		No	None				Change  Drop  More

**Indexes:**

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
	PRIMARY	BTREE	Yes	No	id_jadwal_hewan	4	A	No	
	id_pegawai	BTREE	No	No	id_pegawai	4	A	No	
	id_hewan	BTREE	No	No	id_hewan	4	A	No	

## Tabel Jadwal Shift Hewan

Tabel Jadwal Shift Hewan berisi atribut id\_jadwal\_hewan, id\_hewan, id\_pegawai, jam\_mulai, dan jam\_akhir. Dimana primary keynya adalah id\_jadwal\_hewan dan foreign keynya adalah id\_hewan yang tersambung dengan tabel hewan serta id\_pegawai yang tersambung dengan tabel pegawai.

The screenshot shows the phpMyAdmin interface displaying the data from the 'jadwal\_shift\_hewan' table. The table contains four rows of data:

	id_jadwal_hewan	id_hewan	id_pegawai	jam_mulai	jam_akhir
1	A-1	K-3		7	12
2	A-2	K-4		12	17
3	M-1	K-1		7	12
4	M-2	K-2		12	17

## Struktur Tabel Jadwal Shift Sarana

The screenshot shows the phpMyAdmin interface for the 'jadwal\_shift\_sarana' table. The table has five columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_jadwal_sarana	varchar(255)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	id_sarana	varchar(255)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	id_pegawai	varchar(255)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	tgl_check_sarana	date			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
5	keadaan_sarana	varchar(255)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Below the table structure, there is a section for indexes:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a>	<a href="#">Rename</a>	<a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	id_jadwal_sarana	4	A No
<a href="#">Edit</a>	<a href="#">Rename</a>	<a href="#">Drop</a>	id_pegawai	BTREE	No	No	id_pegawai	4	A No
<a href="#">Edit</a>	<a href="#">Rename</a>	<a href="#">Drop</a>	id_sarana	BTREE	No	No	id_sarana	4	A No

## Tabel Jadwal Shift Sarana

Tabel Jadwal Shift Sarana berisi atribut id\_jadwal\_sarana, id\_sarana, id\_pegawai, tgl\_check\_sarana, dan keadaan\_sarana. Dimana primary keynya adalah id\_jadwal\_sarana dan foreign keynya adalah id\_sarana yang tersambung dengan tabel sarana dan id\_pegawai yang tersambung dengan tabel pegawai.

The screenshot shows the phpMyAdmin interface displaying the data from the 'jadwal\_shift\_sarana' table. The data is as follows:

	id_jadwal_sarana	id_sarana	id_pegawai	tgl_check_sarana	keadaan_sarana
1	KK-JS1	KK	S-2	2022-03-01	Baik
2	KF-JS2	KP	S-1	2022-03-01	1 Rusak
3	PO-JS2	PG	S-1	2022-03-01	Baik
4	TM-JS1	TM	S-2	2022-03-01	Baik

## Struktur Tabel Makanan

The screenshot shows the phpMyAdmin interface for the 'makanan' table in the 'kbinatang' database. The table has four columns: id\_makanan, id\_hewan, nama\_makanan, and stok\_makanan. The primary key is id\_makanan, and id\_hewan is a foreign key referencing the hewan table. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_makanan	varchar(255)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	id_hewan	varchar(255)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	nama_makanan	varchar(255)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	stok_makanan	varchar(255)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Indexes:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	id_makanan	4	A	No	
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	id_hewan	BTREE	No	No	id_hewan	4	A	No	

## Tabel Makanan

Tabel Makanan berisi atribut id\_makanan, id\_hewan, nama\_makanan, dan stok\_makanan. Dimana primary keynya adalah id\_makanan dan foreign keynya adalah id\_hewan yang tersambung dengan tabel hewan.

The screenshot shows the phpMyAdmin interface displaying the data from the 'makanan' table. The table contains three rows of data:

	id_makanan	id_hewan	nama_makanan	stok_makanan
1	DG-1	M-1	Daging Sapi	20KG
2	IK-1	M-2	Ikan	15KG
3	SR-4	A-1	Jangkrik	3KG
4	SY-6	A-2	Kangkung	20 Ikat

## Struktur Tabel Pegawai

The screenshot shows the phpMyAdmin interface for the 'pegawai' table in the 'kbinatang' database. The table has 8 columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra Action
1	id_pegawai	varchar(255)	utf8mb4_general_ci		No	None		Change  Drop  More
2	nama_pegawai	varchar(255)	utf8mb4_general_ci		No	None		Change  Drop  More
3	ttl_pegawai	date			No	None		Change  Drop  More
4	no_pegawai	varchar(255)	utf8mb4_general_ci		No	None		Change  Drop  More
5	gender_pegawai	varchar(255)	utf8mb4_general_ci		No	None		Change  Drop  More
6	gaji_pegawai	int(255)			No	None		Change  Drop  More
7	username	varchar(255)	utf8mb4_general_ci		No	None		Change  Drop  More
8	password	varchar(255)	utf8mb4_general_ci		No	None		Change  Drop  More

Below the table structure, there is a section for indexes:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit	PRIMARY	BTREE	Yes	No	id_pegawai	8	A	No	

## Tabel Pegawai

Tabel Pegawai berisi atribut id\_pegawai, nama\_pegawai, ttl\_pegawai, no\_pegawai, gender\_pegawai, gaji\_pegawai, username, password. Dimana primary keynya adalah id\_pegawai.

The screenshot shows the phpMyAdmin interface displaying the data from the 'pegawai' table. The table contains 10 rows of data:

	id_pegawai	nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password
1	D-1	Ariyanto	1992-06-20	81234567810	Laki-laki	5000000	aryantodmamalia	ao*200692
2	D-2	Karina	1982-11-04	81234567896	Perempuan	5000000	karinadavies	ka*041082
3	K-1	Jatmiko	1985-07-30	81234567216	Laki-laki	3000000	jatmikokmamalia	jo*300785
4	K-2	Rina	1999-09-17	81234567218	Perempuan	3000000	rinakmamalia	ra*170990
5	K-3	Kelly	2000-04-29	81234567329	Perempuan	2500000	kellykawes	ky*290420
6	K-4	Arif	1999-01-06	81234567322	Laki-laki	2500000	arifkawes	ar*060199
7	S-1	Bambang	1977-08-15	81234567893	Laki-laki	3000000	bambangsarana1	bg*15987
8	S-2	Joko	1983-04-29	81234567895	Laki-laki	2500000	jokosarana2	jo*290483

## Struktur Tabel Sarana

The screenshot shows the phpMyAdmin interface for the 'kbinatang' database. The left sidebar lists various databases and tables. The main panel displays the structure of the 'sarana' table. The table has two columns: 'id\_sarana' (Type: varchar(255), Collation: utf8mb4\_general\_ci) and 'nama\_sarana' (Type: varchar(255), Collation: utf8mb4\_general\_ci). A primary key is defined on 'id\_sarana'. An index is also present on 'id\_sarana'. The table contains four rows with data: Kunci Keamanan Satwa, Kursi Pengunjung, Pagar dari Pengunjung, and Tempat Makan Satwa.

## Tabel Sarana

Tabel Sarana berisi atribut id\_sarana dan nama\_sarana. Dimana primary keynya adalah id\_sarana.

The screenshot shows the phpMyAdmin interface for the 'kbinatang' database. The left sidebar lists various databases and tables. The main panel displays the data from the 'sarana' table. The table has two columns: 'id\_sarana' and 'nama\_sarana'. The data consists of four rows: Kunci Keamanan Satwa, Kursi Pengunjung, Pagar dari Pengunjung, and Tempat Makan Satwa.

## Struktur Tabel Supplier

The screenshot shows the phpMyAdmin interface for the 'kbinatang' database. The left sidebar lists various databases and tables. The 'supplier' table is selected in the 'Tables' section. The main area displays the table structure with columns: id\_supplier, id\_makanan, nama\_supplier, no\_supplier, and tgl\_supplier. Primary key constraints are defined for id\_supplier and id\_makanan. An index is also present on id\_makanan.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_supplier	varchar(255)	utf8mb4_general_ci	No	None				Change  Drop  More
2	id_makanan	varchar(255)	utf8mb4_general_ci	No	None				Change  Drop  More
3	nama_supplier	varchar(255)	utf8mb4_general_ci	No	None				Change  Drop  More
4	no_supplier	int(255)		No	None				Change  Drop  More
5	tgl_supplier	date		No	None				Change  Drop  More

## Tabel Supplier

Tabel Supplier berisi atribut id\_supplier, id\_makanan, nama\_supplier, no\_supplier, dan tgl\_supplier. Dimana primary keynya adalah id\_supplier dan foreign keynya adalah id\_makanan yang tersambung dengan tabel makanan.

The screenshot shows the phpMyAdmin interface for the 'kbinatang' database. The 'supplier' table is selected. The data grid displays five rows of supplier information, each with a unique ID, a corresponding food ID, a name, a number, and a date.

	id_supplier	id_makanan	nama_supplier	no_supplier	tgl_supplier
1	DG-145	DG-1	Toni	812345634	2022-03-24
2	IK-150	IK-1	Risa	812345620	2022-03-23
3	SR-402	SR-4	Nela	812345645	2022-03-21
4	SY-613	SY-6	Dedi	812345692	2022-03-23

## SELECT

### Select Satu Table

The screenshot shows two instances of the phpMyAdmin interface. Both instances are connected to the database 'kbinatang' and the table 'hewan'.  
The top instance shows the SQL query: `SELECT * FROM `hewan` WHERE 1`. To the right, the results pane displays the structure of the table: `id_hewan, kategori_hewan, nama_hewan, jumlah_hewan, lokasi_hewan`. Below the query input, there are buttons for SELECT, INSERT, UPDATE, DELETE, Clear, Format, Bind parameters, Delimiter, Show this query here again, Retain query box, Rollback when finished, and Enable foreign key checks.  
The bottom instance shows the results of the query. It displays a green message: "Showing rows 0 - 3 (4 total, Query took 0.0004 seconds.)". Below this, the results table is shown:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan	
<input type="checkbox"/>	Edit Copy Delete	A-1	Aves	Burung Merak	5	Taman-2
<input type="checkbox"/>	Edit Copy Delete	A-2	Aves	Burung Unta	5	Taman-4
<input type="checkbox"/>	Edit Copy Delete	M-1	Mamalia	Singa	3	Afrika-1
<input type="checkbox"/>	Edit Copy Delete	M-2	Mamalia	Lumba-lumba	2	Akuarium-3

Below the table, there are buttons for Show all, Number of rows (set to 25), Filter rows, Search this table, Sort by key (None), and Options. At the bottom, there are buttons for Check all, With selected: Edit, Copy, Delete, Export, and a Query results operations section with options for Console, Copy to clipboard, Export, Display chart, and Create view.

Operasi ini digunakan untuk menampilkan satu table. Pada gambar di atas, ditampilkan table hewan dimana terdapat atribut id\_hewan, kategori\_hewan, nama\_hewan, jumlah\_hewan, dan lokasi\_hewan.

The screenshot shows two instances of the phpMyAdmin interface. Both instances have the following details:

- Server:** 127.0.0.1
- Database:** kbinatang
- Table:** hewan

In the top instance, the SQL tab is active. A query is entered in the text area:

```
1 SELECT id_hewan, nama_hewan FROM hewan WHERE 1;
```

The results pane on the right shows the structure of the table:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
--	----------	----------------	------------	--------------	--------------

Below the SQL tab, there are buttons for SELECT\*, SELECT, INSERT, UPDATE, DELETE, Clear, Format, and Get auto-saved query. There is also a Bind parameters checkbox.

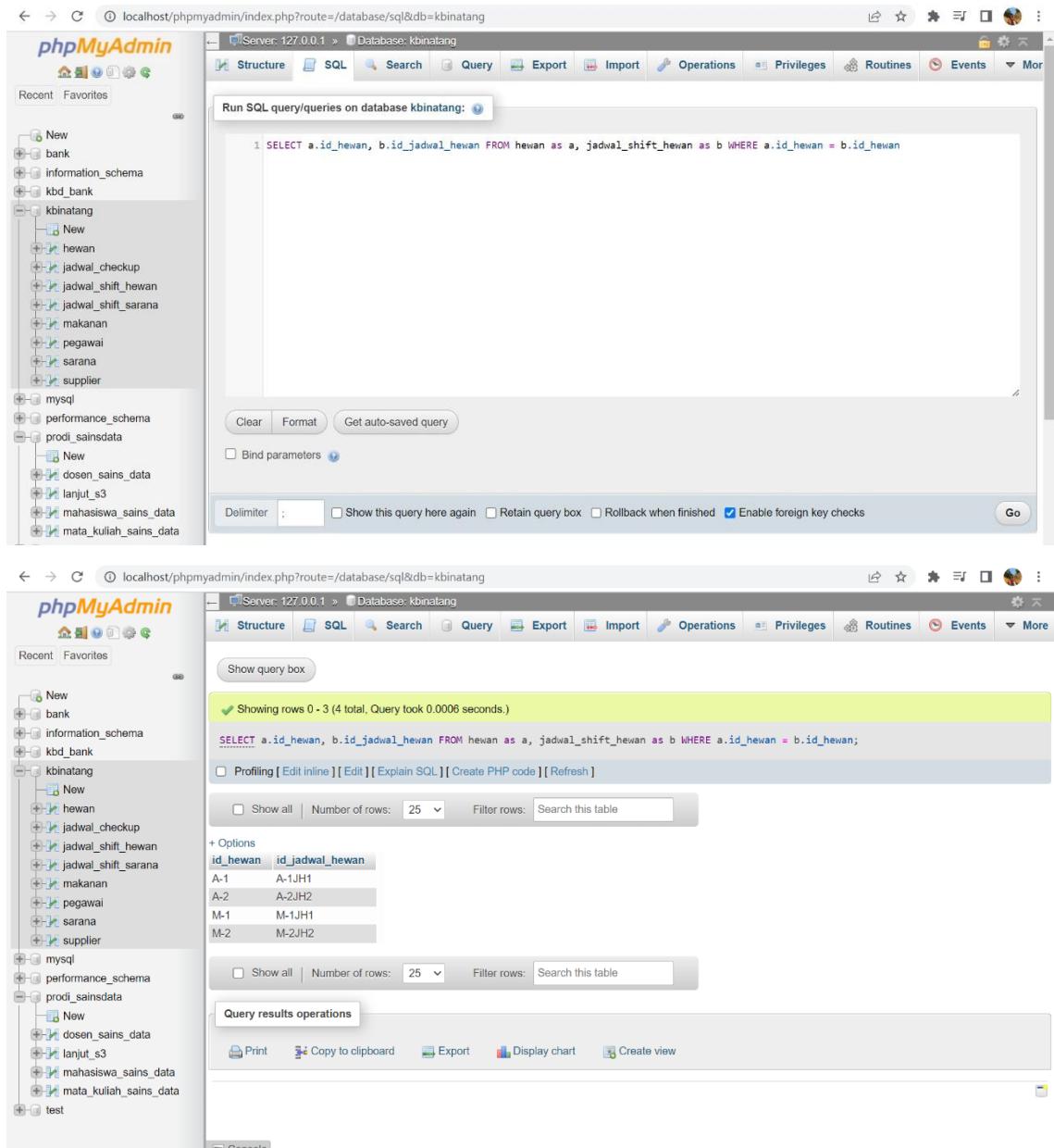
In the bottom instance, the Structure tab is active. It shows the table structure with columns: id\_hewan, nama\_hewan, kategori\_hewan, jumlah\_hewan, and lokasi\_hewan. The data pane displays the following rows:

	id_hewan	nama_hewan
1	A-1	Burung Merak
2	A-2	Burung Unta
3	M-1	Singa
4	M-2	Lumba-lumba

Below the data pane, there are buttons for Show all, Number of rows: 25, Filter rows: Search this table, Sort by key: None, and Options. The Options menu includes Edit, Copy, Delete, and other operations. At the bottom, there are buttons for Print, Copy to clipboard, Export, Display chart, and Create view.

Operasi ini juga dapat digunakan untuk menampilkan row atau baris yang diinginkan. Pada gambar di atas, ditampilkan table hewan dengan atribut id\_hewan dan nama\_hewan.

## Select Multi Table



The screenshot shows two instances of the phpMyAdmin interface. The top instance is in 'SQL' mode, displaying a query to select from two tables: 'hewan' and 'jadwal\_shift\_hewan'. The bottom instance is in 'Results' mode, showing the executed query and its output.

**SQL Query:**

```
1 SELECT a.id_hewan, b.id_jadwal_hewan FROM hewan as a, jadwal_shift_hewan as b WHERE a.id_hewan = b.id_hewan
```

**Results:**

id_hewan	id_jadwal_hewan
A-1	A-1JH1
A-2	A-2JH2
M-1	M-1JH1
M-2	M-2JH2

Operasi multi table digunakan untuk menampilkan gabungan dari dua table yang ingin digabungkan. Pada gambar di atas terdapat table hewan dan jadwal\_shift\_hewan yang diwakili oleh id\_hewan dimana pada table hewan menampilkan atribut id\_hewan dan pada table jadwal\_shift\_hewan menampilkan atribut id\_jadwal\_hewan.

## Select With Condition

The screenshot shows two consecutive views of the phpMyAdmin interface. In the first view, a SQL query is run:

```
1 SELECT * FROM `hewan` WHERE id_hewan = 'A-1'
```

The results pane shows the following table:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
	A-1	Aves	Burung Morak	5	Taman-2

In the second view, the results of the query are displayed in the main pane:

Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)

```
SELECT * FROM `hewan` WHERE id_hewan = 'A-1';
```

Below the results, there is a table with the same data as above, and a "Query results operations" section with various export options.

Operasi ini digunakan untuk menampilkan suatu table dengan adanya kondisi tertentu. Pada gambar di atas, menampilkan table hewan dengan kondisi id\_hewan pada 'A-1'.

## Select Distinct

The screenshot shows the phpMyAdmin interface for the 'hewan' table in the 'kbinatang' database. In the SQL tab, the query `SELECT DISTINCT id_hewan FROM hewan` is entered. The results pane on the right displays the columns: id\_hewan, kategori\_hewan, nama\_hewan, jumlah\_hewan, and lokasi\_hewan. The results section shows three rows: A-1, A-2, and M-1.

The screenshot shows the phpMyAdmin interface after executing the query. The results pane indicates 4 total rows found. The results section shows three distinct rows: A-1, A-2, and M-1. The 'Query results operations' section at the bottom provides options to print, copy to clipboard, export, display chart, or create view.

Operasi ini digunakan untuk menampilkan data yang unik saja dimana pada gambar di atas dilakukan distinct pada id\_hewan pada table hewan.

## Ordering Selection:

### Ascending

The screenshot shows two instances of the phpMyAdmin interface. Both instances have the same URL: `localhost/phpmyadmin/index.php?route=/table/sql&db=kbinatang&table=hewan`. The left instance shows the SQL query `SELECT * FROM `hewan` ORDER BY id_hewan ASC` in the SQL tab, with the results displayed in the Results tab. The right instance shows the same query and results, but the results table is sorted by the `id_hewan` column in ascending order.

**Results from the first phpMyAdmin instance (SQL tab):**

id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
A-1	Aves	Burung Merak	5	Taman-2
A-2	Aves	Burung Unta	5	Taman-4
M-1	Mamalia	Singa	3	Afrika-1
M-2	Mamalia	Lumba-lumba	2	Akuarium-3

**Results from the second phpMyAdmin instance (Results tab):**

id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
A-1	Aves	Burung Merak	5	Taman-2
A-2	Aves	Burung Unta	5	Taman-4
M-1	Mamalia	Singa	3	Afrika-1
M-2	Mamalia	Lumba-lumba	2	Akuarium-3

Operasi ini digunakan untuk mengurutkan record data dari data yang memiliki nilai terkecil ke terbesar. Pada gambar di atas dilakukan operasi ascending pada table hewan yaitu pada id\_hewan.

## Descending

The screenshot shows the phpMyAdmin interface for the 'hewan' table in the 'kbinatang' database. The left sidebar shows the database structure. The main area has a SQL query window containing the following code:

```
1 SELECT * FROM `hewan` ORDER BY id_hewan DESC
```

The results pane on the right displays the following data:

id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
M-2...	Mamalia	Lumba-lumba	2	Akuarium-3
M-1	Mamalia	Singa	3	Afrika-1
A-2	Aves	Burung Unta	5	Taman-4
A-1	Aves	Burung Merak	5	Taman-2

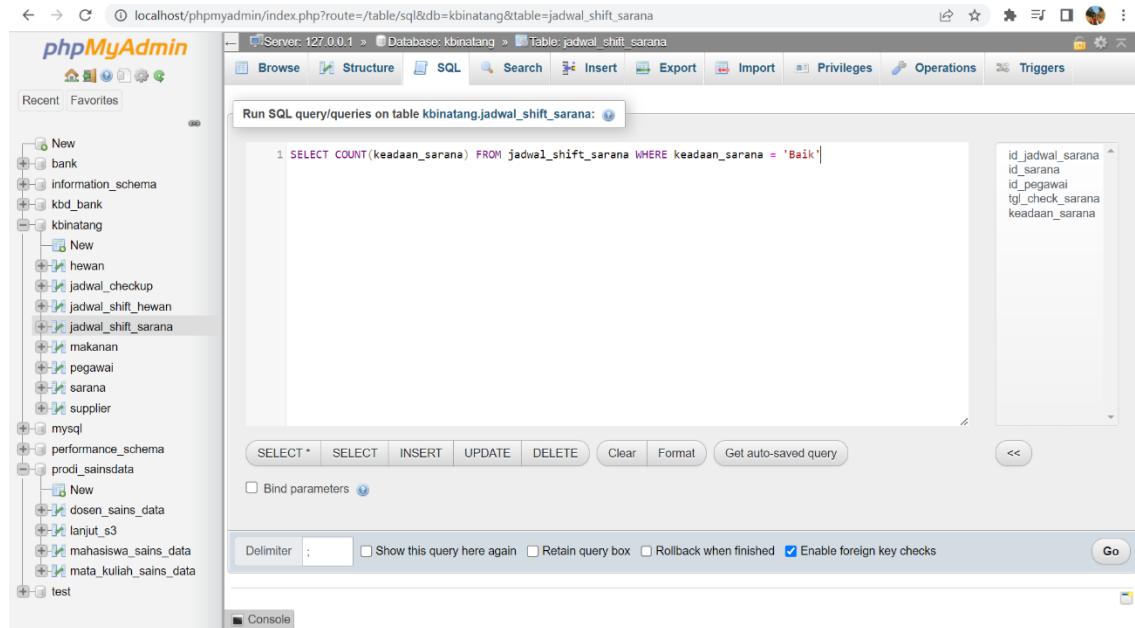
The screenshot shows the phpMyAdmin interface for the 'hewan' table in the 'kbinatang' database. The left sidebar shows the database structure. The main area has a results grid displaying the same data as the previous screenshot, but sorted by 'id\_hewan' in descending order.

id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
M-2...	Mamalia	Lumba-lumba	2	Akuarium-3
M-1	Mamalia	Singa	3	Afrika-1
A-2	Aves	Burung Unta	5	Taman-4
A-1	Aves	Burung Merak	5	Taman-2

Operasi ini digunakan untuk mengurutkan record data dari data yang memiliki nilai terbesar ke terkecil. Pada gambar di atas dilakukan operasi descending pada table hewan yaitu pada id\_hewan.

## SELECT COUNT, AVG and SUM

### Select Count

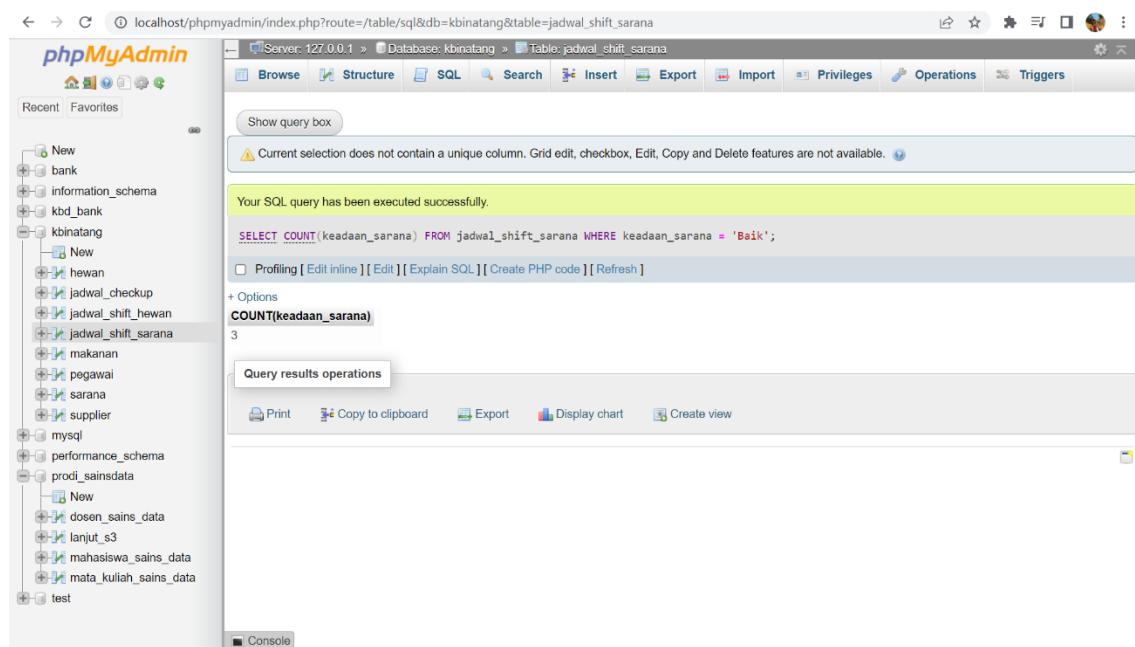


The screenshot shows the phpMyAdmin interface for the 'jadwal\_shift\_sarana' table in the 'kbinatang' database. The left sidebar shows various databases and tables. The main area contains the following SQL query:

```
1 SELECT COUNT(keadaan_sarana) FROM jadwal_shift_sarana WHERE keadaan_sarana = 'Baik';
```

The results pane on the right shows the column definitions:

id_jadwal_sarana	id_sarana	id_pegawai	tgl_check_sarana	keadaan_sarana
------------------	-----------	------------	------------------	----------------



The screenshot shows the phpMyAdmin interface after executing the SQL query. A message box indicates that the current selection does not contain a unique column, so grid edit, checkbox, Edit, Copy and Delete features are not available.

Your SQL query has been executed successfully.

```
SELECT COUNT(keadaan_sarana) FROM jadwal_shift_sarana WHERE keadaan_sarana = 'Baik';
```

The results pane shows the count of rows where 'keadaan\_sarana' is 'Baik':

COUNT(keadaan_sarana)
3

Operasi ini digunakan untuk menghitung jumlah banyaknya data pada suatu table atau kolom. Pada gambar di atas menampilkan jumlah banyaknya data keadaan\_sarana dengan kondisi 'Baik' pada tabel jadwal\_shift\_sarana.

## Average

The screenshot shows two consecutive views of the phpMyAdmin interface for the 'hewan' table in the 'kbinatang' database.

**Top View:** The left sidebar shows the database structure. The 'hewan' table is selected in the 'kbinatang' schema. The main area contains an SQL query window with the following code:

```
1 SELECT AVG(jumlah_hewan) FROM hewan
```

The results pane on the right displays the output of the query:

id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
			3.7500	

**Bottom View:** The same interface after executing the query. The results pane now shows the output:

Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)

```
SELECT AVG(jumlah_hewan) FROM hewan;
```

Query results operations:

- Print
- Copy to clipboard
- Export
- Display chart
- Create view

Operasi ini digunakan untuk menghitung rata-rata dari data yang ada. Pada gambar di atas dilakukan operasi average untuk menghitung rata-rata dari jumlah\_hewan pada table hewan.

## Sum

The screenshot shows the phpMyAdmin interface for a database named 'kbinatang'. The left sidebar lists various tables: bank, information\_schema, kbd\_bank, kbinatang, makanan, pegawai, sarana, supplier, mysql, performance\_schema, prodi\_sainsdata, dosen\_sains\_data, lanjut\_s3, mahasiswa\_sains\_data, and mata\_kuliah\_sains\_data. The 'hewan' table is selected. In the main area, a SQL query is entered in the 'Run SQL query/queries on table kbinatang.hewan:' field:

```
1 SELECT SUM(jumlah_hewan) FROM hewan
```

The results pane on the right shows the structure of the 'hewan' table with columns: id\_hewan, kategori\_hewan, nama\_hewan, jumlah\_hewan, and lokasi\_hewan.

The screenshot shows the phpMyAdmin interface after executing the SQL query. A message indicates that the current selection does not contain a unique column, so grid edit, checkbox, Edit, Copy and Delete features are not available. The results pane displays the following output:

```
Showing rows 0 - 0 (1 total, Query took 0.0031 seconds.)
```

```
SELECT SUM(jumlah_hewan) FROM hewan;
```

Below the results, there is an 'Options' section with a 'SUM(jumlah\_hewan)' button, which has been clicked. The 'Query results operations' section at the bottom includes links for Print, Copy to clipboard, Export, Display chart, and Create view.

Operasi ini digunakan untuk menghitung jumlah data yang ada. Pada gambar di atas dilakukan operasi sum untuk mengitung jumlah data dari jumlah\_hewan pada table hewan.

## SELECT JOIN

### Inner Join

The screenshot shows two instances of the phpMyAdmin interface. The top instance is in 'SQL' mode, displaying the query:

```
1 SELECT * FROM hewan INNER JOIN makanan ON hewan.id_hewan = makanan.id_hewan
```

The bottom instance is in 'Structure' mode, showing the results of the query. A warning message states: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." The results table contains the following data:

id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan	id_makanan	id_hewan	nama_makanan	stok_makanan
M-1	Mamalia	Singa	3	Afrika-1	DG-1	M-1	Daging Sapi	20kg
M-2	Mamalia	Lumba-lumba	2	Akuarium-3	IK-1	M-2	Ikan	15kg
A-1	Aves	Burung Merak	5	Taman-2	SR-4	A-1	Jangkrik	3kg
A-2	Aves	Burung Unta	5	Taman-4	SY-6	A-2	Kangkung	20ikat

Operasi ini digunakan untuk menampilkan sebuah data yang menghubungkan dua atau lebih tabel dalam satu perintah dimana pada operasi ini hanya menampilkan data yang memiliki kesamaan saja, jika pada tabel tidak memiliki sebuah kesamaan maka data tidak akan ditampilkan.

## Left Join

The screenshot shows the phpMyAdmin interface for a database named 'kbinatang'. The left sidebar lists various tables: bank, information\_schema, kbd\_bank, kbinatang (with sub-tables hewan, jadwal\_checkup, jadwal\_shift\_hewan, jadwal\_shift\_sarana), makanan, pegawai, sarana, supplier, mysql, performance\_schema, prodi\_sainsdata (with sub-tables dosen\_sains\_data, lanjut\_s3, mahasiswa\_sains\_data, mata\_kuliah\_sains\_data), and test. The 'hewan' table is selected. The main area shows an SQL query window with the following code:

```
1 SELECT * FROM hewan LEFT JOIN makanan ON hewan.id_hewan = makanan.id_hewan
```

The results pane on the right displays the following columns: id\_hewan, kategori\_hewan, nama\_hewan, jumlah\_hewan, lokasi\_hewan.

The screenshot shows the phpMyAdmin interface after executing the SQL query. A warning message states: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." Below this, it says "Showing rows 0 - 3 (4 total, Query took 0.00002 seconds.)". The results grid shows the following data:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan	id_makanan	id_hewan	nama_makanan	stok_makanan
M-1	Mamalia	Singa	3	Afrika-1	DG-1	M-1		Daging Sapi	20kg
M-2	Mamalia	Lumba-lumba	2	Akuarium-3	IK-1	M-2		Ikan	15kg
A-1	Aves	Burung Merak	5	Taman-2	SR-4	A-1		Jangrik	3kg
A-2	Aves	Burung Unta	5	Taman-4	SY-6	A-2		Kangkung	20ikat

Operasi ini digunakan untuk menampilkan keseluruhan data pada sebelah kiri table yang di-joinkan dan menampilkan data pada sebelah kanan yang cocok dengan kondisi join. Jika pada table sebelah kanan tidak ditemukan maka secara otomatis akan menjadi NULL.

## Right Join

The screenshot shows the phpMyAdmin interface for a database named 'kbinatang'. The left sidebar lists various tables: bank, information\_schema, kbd\_bank, kbinatang, makanan, mysql, performance\_schema, prodi\_sainsdata, and test. The 'hewan' table is selected. The main area contains an SQL query window with the following code:

```
1 SELECT * FROM hewan RIGHT JOIN makanan ON hewan.id_hewan = makanan.id_hewan
```

Below the query, there are several buttons: SELECT\*, SELECT, INSERT, UPDATE, DELETE, Clear, Format, Bind parameters, Delimiter, Show this query here again, Retain query box, Rollback when finished, and Enable foreign key checks. A preview of the result set is shown on the right, listing columns: id\_hewan, kategori\_hewan, nama\_hewan, jumlah\_hewan, lokasi\_hewan.

The screenshot shows the phpMyAdmin interface after executing the Right Join query. The left sidebar is identical to the first screenshot. The main area displays the results of the query:

```
SELECT * FROM hewan RIGHT JOIN makanan ON hewan.id_hewan = makanan.id_hewan;
```

A warning message at the top states: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." Below this, a green status bar indicates: "Showing rows 0 - 3 (4 total, Query took 0.00002 seconds.)". The result set is presented in a grid:

+ Options	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan	id_makanan	id_hewan	nama_makanan	stok_makanan
	M-1	Mamalia	Singa	3	Afrika-1	DG-1	M-1	Daging Sapi	20kg
	M-2	Mamalia	Lumba-lumba	2	Akuarium-3	IK-1	M-2	Ikan	15kg
	A-1	Aves	Burung Merak	5	Taman-2	SR-4	A-1	Jangkrik	3kg
	A-2	Aves	Burung Unta	5	Taman-4	SY-6	A-2	Kangkung	20ikat

At the bottom, there are links for Print, Copy to clipboard, Export, Display chart, and Create view.

Operasi ini digunakan untuk menampilkan keseluruhan data pada sebelah kanan table yang di-joinkan dan menampilkan data pada sebelah kiri yang cocok dengan kondisi join. Jika pada table sebelah kiri tidak ditemukan maka secara otomatis akan menjadi NULL.

## UPDATE

Operasi ini digunakan untuk mengubah isi dari data yang sudah ada.

The screenshot shows the phpMyAdmin interface for the 'hewan' table in the 'kbinatang' database. The table structure is as follows:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
1	A-1	Aves	Burung Merak	5	Taman-2
2	A-2	Aves	Burung Unta	5	Taman-4
3	M-1	Mammalia	Singa	3	Afrika-1
4	M-2	Mammalia	Lumba-lumba	2	Akuarium-3
5	M-3	Aves	Gajah	3	Afrika-6

Pada gambar di atas merupakan data sebelum dilakukannya operasi update.

The screenshot shows the phpMyAdmin interface with an SQL query entered in the 'Run SQL query/queries on table kbinatang.hewan:' field:

```
1 UPDATE `hewan` SET `kategori_hewan`='Mammalia' WHERE `id_hewan`='M-3'
```

The results pane on the right shows the updated data:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
1	M-3	Mammalia	Gajah	3	Afrika-6

Pada gambar di atas merupakan query yang digunakan untuk melakukan update data yaitu aves diubah menjadi mamalia pada data gajah di tabel hewan.

The screenshot shows the phpMyAdmin interface for the 'hewan' table in the 'kbinatang' database. The table contains five rows of data:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
<input type="checkbox"/>	A-1	Aves	Burung Merak	5	Taman-2
<input type="checkbox"/>	A-2	Aves	Burung Unta	5	Taman-4
<input type="checkbox"/>	M-1	Mamalia	Singa	3	Afrika-1
<input type="checkbox"/>	M-2	Mamalia	Lumba-lumba	2	Akuarium-3
<input type="checkbox"/>	M-3	Mamalia	Gajah	3	Afrika-6

Pada gambar di atas merupakan data setelah dilakukannya operasi update pada data.

## INSERT INTO

Operasi ini digunakan untuk menambahkan data pada suatu table.

The screenshot shows the phpMyAdmin interface for the 'hewan' table in the 'kbinatang' database. The table contains four rows of data:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
<input type="checkbox"/>	A-1	Aves	Burung Merak	5	Taman-2
<input type="checkbox"/>	A-2	Aves	Burung Unta	5	Taman-4
<input type="checkbox"/>	M-1	Mamalia	Singa	3	Afrika-1
<input type="checkbox"/>	M-2	Mamalia	Lumba-lumba	2	Akuarium-3
<input type="checkbox"/>	M-3	Mamalia	Gajah	3	Afrika-6

Pada gambar di atas merupakan data sebelum dilakukannya operasi insert into pada data.

The screenshot shows the phpMyAdmin interface for a database named 'kbinatang'. The left sidebar lists various databases and tables, including 'hewan'. The main area shows an SQL query being run:

```
1 INSERT INTO `hewan`(`id_hewan`, `kategori_hewan`, `nama_hewan`, `jumlah_hewan`, `lokasi_hewan`) VALUES ('A-3','Aves','Jalak Bali','2','Taman-5')
```

The results pane on the right displays the columns and their corresponding values for the inserted row.

Pada gambar di atas merupakan query yang digunakan untuk melakukan insert into yaitu menambahkan data pada tabel hewan.

The screenshot shows the phpMyAdmin interface after the data has been inserted. The results pane displays the following data in the 'hewan' table:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
<input type="checkbox"/>	A-1	Aves	Burung Merak	5	Taman-2
<input type="checkbox"/>	A-2	Aves	Burung Unta	5	Taman-4
<input type="checkbox"/>	A-3	Aves	Jalak Bali	2	Taman-5
<input type="checkbox"/>	M-1	Mamalia	Singa	3	Afrika-1
<input type="checkbox"/>	M-2	Mamalia	Lumba-lumba	2	Akuarium-3
<input type="checkbox"/>	M-3	Mamalia	Gajah	3	Afrika-6

Pada gambar di atas merupakan data setelah dilakukannya operasi insert into pada data.

## DELETE

### Delete Restrict

Operasi penghapusan restrict memiliki pengaturan dimana jika di dalam table terdapat sebuah relasi dengan table lainnya, maka penghapusan data tidak akan terjadi.

Pada tabel makanan

The screenshot shows the phpMyAdmin interface for the 'makanan' table. A modal dialog titled 'Confirm' is open, asking if the user really wants to execute a DELETE query. The query is: 'DELETE FROM makanan WHERE makanan.id\_makanan = 'IK-1''. There are 'OK' and 'Cancel' buttons at the bottom of the dialog. The main table view shows four rows: DG-1 (id\_makanan M-1), IK-1 (M-2), SR-4 (A-1), and SY-6 (A-2). Below the table, there is a 'Query results operations' section with options like Print, Copy to clipboard, Export, Display chart, and Create view.

The screenshot shows the phpMyAdmin interface for the 'makanan' table. A modal dialog displays an error message: '#1451 - Cannot delete or update a parent row: a foreign key constraint fails ('kbinatang.supplier', CONSTRAINT 'supplier\_ibfk\_1' FOREIGN KEY ('id\_makanan') REFERENCES 'makanan' ('id\_makanan'))'. This indicates that the row 'IK-1' cannot be deleted because it is referenced by a foreign key in the 'supplier' table. The main table view shows four rows: DG-1 (id\_makanan M-1), IK-1 (M-2), SR-4 (A-1), and SY-6 (A-2). The error message is highlighted with a yellow box.

## Delete Cascade

Operasi penghapusan cascade memiliki pengaturan dimana jika menghapus data pada table yang dijadikan sebagai table utama maka data yang terdapat pada table turunannya akan ikut terhapus.

Pada table makanan

The screenshot shows the phpMyAdmin interface for the 'makalan' table. A modal dialog titled 'Confirm' is displayed, asking if the user really wants to execute a 'DELETE FROM makalan WHERE makalan.id\_makanan = 'IK-1''. The table below shows four rows of data. The fourth row, 'SR-4', has its delete button highlighted, indicating it is selected for deletion.

	id_makanan	id_hewan	nama_makanan	stok_makanan
<input type="checkbox"/>	DG-1	M-1	Daging Sapi	20KG
<input type="checkbox"/>	IK-1	M-2	Jangkrik	3KG
<input checked="" type="checkbox"/>	SR-4	A-1	Kangkung	20 ikat
<input type="checkbox"/>	SY-6	A-2		

Hasil penghapusan data pada table makanan

The screenshot shows the phpMyAdmin interface for the 'makalan' table after the deletion. The table now displays only three rows of data, with the row containing 'SR-4' removed. The 'Delete' button for the last row, 'SY-6', is also highlighted.

	id_makanan	id_hewan	nama_makanan	stok_makanan
<input type="checkbox"/>	DG-1	M-1	Daging Sapi	20KG
<input type="checkbox"/>	SR-4	A-1	Kangkung	20 ikat
<input type="checkbox"/>	SY-6	A-2		

## Hasil penghapusan data pada table supplier

The screenshot shows the phpMyAdmin interface for the 'supplier' table. The table has columns: id\_supplier, id\_makanan, nama\_supplier, no\_supplier, and tgl\_supplier. The data is as follows:

id_supplier	id_makanan	nama_supplier	no_supplier	tgl_supplier
DG-145	DG-1	Toni	812345634	2022-03-24
SR-402	SR-4	Nela	812345645	2022-03-21
SY-613	SY-6	Dedi	812345692	2022-03-23

## Delete No Action

Operasi penghapusan no action memiliki pengaturan yang sama dengan restrict dimana table terdapat nilai kunci asing terkait dalam table yang direferensikan, maka server dari MYSQL akan menolak operasi yang ada.

The screenshot shows the phpMyAdmin interface for the 'makanan' table. A confirmation dialog box is open, asking if the user really wants to execute a DELETE operation on the selected row where 'id\_makanan' is 'IK-1'. The dialog has 'OK' and 'Cancel' buttons.

The screenshot shows the phpMyAdmin interface for a database named 'kbinatang'. The current table is 'makanan'. A modal window is displayed, indicating an error: '#1451 - Cannot delete or update a parent row: a foreign key constraint fails ('kbinatang`.`supplier', CONSTRAINT `supplier\_ibfk\_1` FOREIGN KEY (`id\_makanan`) REFERENCES `makanan`(`id\_makanan`) ON DELETE NO ACTION ON UPDATE NO ACTION)'. This error occurs because the 'id\_makanan' column in the 'supplier' table has a foreign key constraint pointing back to the 'makanan' table, and attempting to delete a row from 'makanan' would violate this constraint.

## Delete Set Null

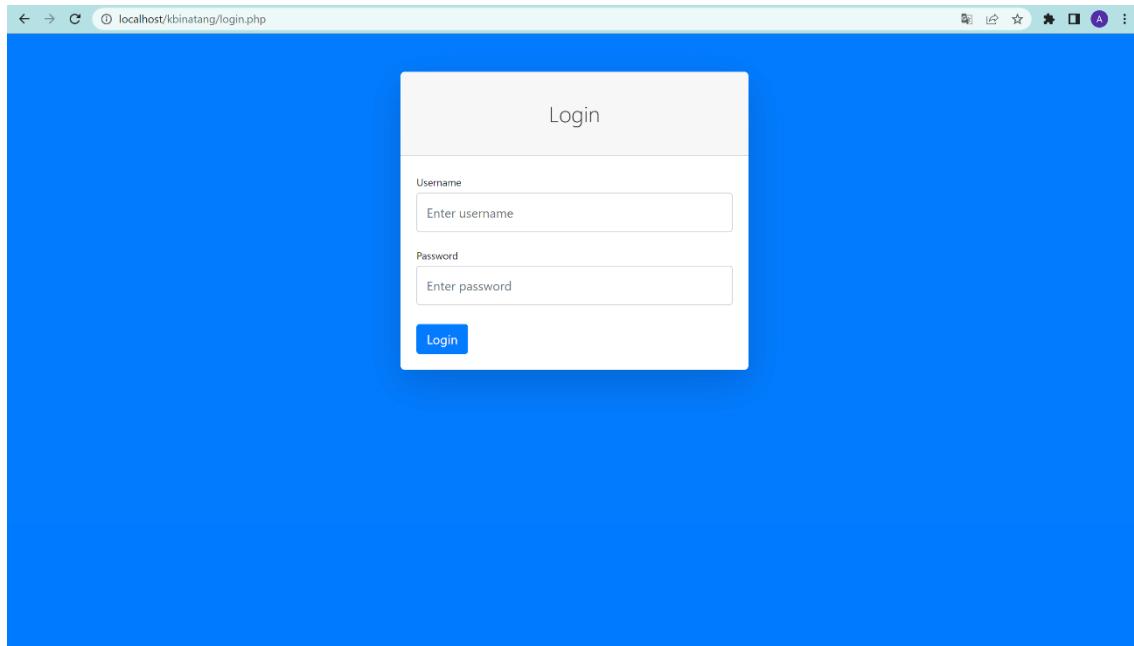
Operasi penghapusan set null memiliki pengaturan dimana jika ketika table memiliki sebuah relasi, kemudian dilakukan penghapusan atau perubahan data pada baris di dalam suatu table, maka akan merubah data pada baris di table lainnya. Operasi ini dapat dilakukan jika dalam kolom foreign key tidak memiliki pengaturan NOT NULL.

This screenshot is identical to the one above, showing the same phpMyAdmin interface and the same foreign key constraint error message. It illustrates that even if the foreign key constraint is removed (as described in the accompanying text), the error will still occur if the 'ON DELETE SET NULL' option is not explicitly defined in the foreign key definition.

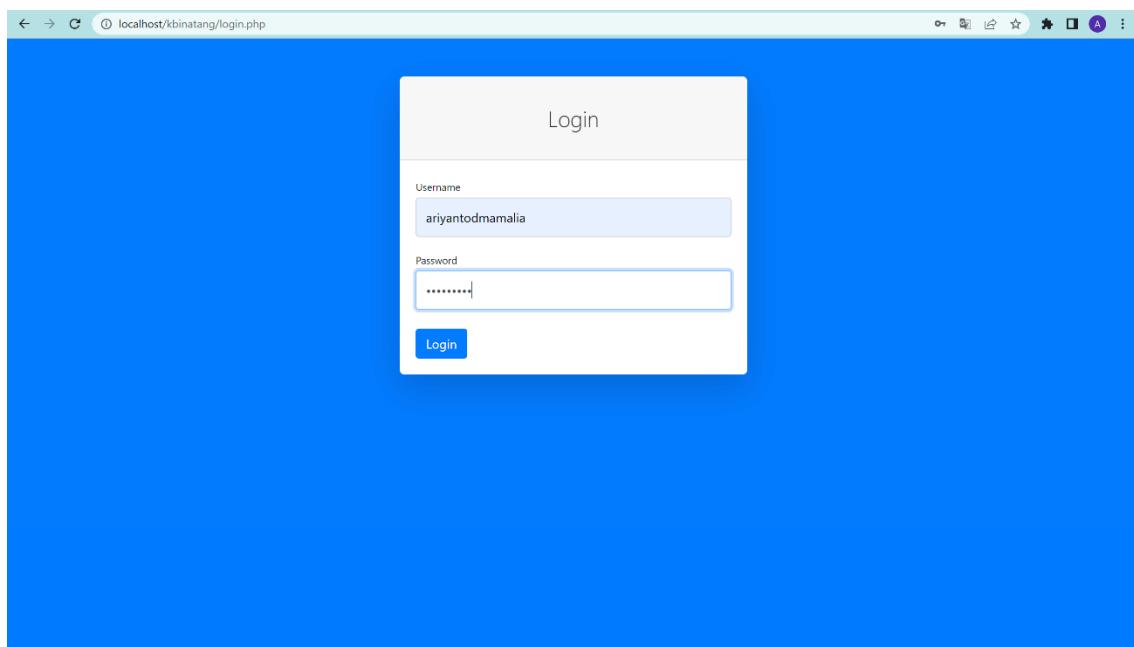
## TAMPILAN IMPLEMENTASI APLIKASI SQL

### Halaman Login

Berikut merupakan tampilan pada halaman login dengan rincian username serta password dari pengguna.



A screenshot of a web browser window showing a blank login form. The title bar reads "localhost/kbinatang/login.php". The form is titled "Login" and contains two input fields: "Username" with placeholder text "Enter username" and "Password" with placeholder text "Enter password". A blue "Login" button is at the bottom.



A screenshot of a web browser window showing a filled login form. The title bar reads "localhost/kbinatang/login.php". The "Username" field is populated with "ariyantodmamalia" and the "Password" field contains a series of asterisks ("\*\*\*\*\*"). The "Login" button is visible at the bottom.

## Halaman Awal

### Halaman Awal untuk Table Hewan

The screenshot shows a web application interface for managing animal data. The left sidebar contains navigation links: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled 'Hewan' and contains a table with the following data:

ID Hewan	Kategori Hewan	Nama Hewan	Jumlah Hewan	Lokasi Hewan	Aksi
A-1	Aves	Burung Merak	6	Taman-2	Edit Delete
A-2	Aves	Burung Unta	5	Taman-4	Edit Delete
A-3	Aves	Burung Merak	5	Taman-2	Edit Delete
M-1	Mamalia	Singa	3	Afrika-1	Edit Delete
M-2	Mamalia	Lumba-lumba	2	Akuarium-3	Edit Delete

Below the table, a message says 'Showing 1 to 5 of 5 entries'. Navigation buttons for Previous, Next, and a page number '1' are also present.

### Halaman Awal untuk Table Sarana

The screenshot shows a web application interface for managing equipment data. The left sidebar contains navigation links: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled 'Sarana' and contains a table with the following data:

ID Sarana	Nama Sarana	Aksi
KK	Kunci Keamanan Satwa	Edit Delete
KP	Kursi Pengunjung	Edit Delete
MP	Meja Pengunjung	Edit Delete
PG	Pagar dari Pengunjung	Edit Delete
TM	Tempat Makan Satwa	Edit Delete

Below the table, a message says 'Showing 1 to 5 of 5 entries'. Navigation buttons for Previous, Next, and a page number '1' are also present.

## Halaman Awal untuk Table Makanan

The screenshot shows a web-based application interface for managing food items. On the left, there is a sidebar with navigation links: Hewan, Sarana, makanan (selected), supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled 'Makanan' and contains a table with the following data:

id_makanan	id_hewan	nama_makanan	stok_makanan	Aksi
DG-1	M-1	Daging Sapi	20kg	<button>Edit</button> <button>Delete</button>
DG-2	M-1	Ayam	20 kg	<button>Edit</button> <button>Delete</button>
IK-1	M-2	Ikan	15kg	<button>Edit</button> <button>Delete</button>
SR-4	A-1	Jangkrik	5kg	<button>Edit</button> <button>Delete</button>
SY-6	A-2	Kangkung	20ikat	<button>Edit</button> <button>Delete</button>

Below the table, it says 'Showing 1 to 5 of 5 entries' and has buttons for 'Previous', '1', and 'Next'.

## Halaman Awal untuk Table Supplier

The screenshot shows a web-based application interface for managing suppliers. On the left, there is a sidebar with navigation links: Hewan, Sarana, makanan, supplier (selected), jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled 'Supplier' and contains a table with the following data:

id_supplier	id_makanan	nama_supplier	no_supplier	tgl_supplier	Aksi
DG-188	DG-2	Bonny	812345678	2022-07-01	<button>Edit</button> <button>Delete</button>
DG-189	DG-2	Billy	812345687	2022-07-01	<button>Edit</button> <button>Delete</button>
IK-150	IK-1	Risa	812345620	2022-03-23	<button>Edit</button> <button>Delete</button>
SR-402	SR-4	Nela	812345645	2022-03-21	<button>Edit</button> <button>Delete</button>
SY-613	SY-6	Dedi	812345692	2022-03-23	<button>Edit</button> <button>Delete</button>

Below the table, it says 'Showing 1 to 5 of 5 entries' and has buttons for 'Previous', '1', and 'Next'.

## Halaman Awal untuk Table Jadwal Check Up

The screenshot shows a web application interface for managing animal checkups. The left sidebar contains navigation links for Hewan, Sarana, makanan, supplier, and several options under 'jadwal check up'. The main content area is titled 'Jadwal Check Up' and features a table with four entries. Each entry includes columns for id\_checkup, id\_hewan, id\_pegawai, tgl\_checkup, and Aksi (Edit/Delete buttons). Below the table, a message indicates 'Showing 1 to 4 of 4 entries'.

id_checkup	id_hewan	id_pegawai	tgl_checkup	Aksi
A-1CU2	A-2	D-2	2022-03-10	<button>Edit</button> <button>Delete</button>
A-2CU3	A-1	D-1	2022-03-10	<button>Edit</button> <button>Delete</button>
A-2CU4	A-1	D-1	2022-07-08	<button>Edit</button> <button>Delete</button>
M-1CU1	M-2	D-1	2022-02-14	<button>Edit</button> <button>Delete</button>

## Halaman Awal untuk Table Jadwal Shift Hewan

The screenshot shows a web application interface for managing animal shifts. The left sidebar contains navigation links for Hewan, Sarana, makanan, supplier, and several options under 'jadwal check up'. The main content area is titled 'Jadwal Shift Hewan' and features a table with four entries. Each entry includes columns for id\_jadwal\_hewan, id\_hewan, id\_pegawai, jam\_mulai, jam\_akhir, and Aksi (Edit/Delete buttons). Below the table, a message indicates 'Showing 1 to 4 of 4 entries'.

id_jadwal_hewan	id_hewan	id_pegawai	jam_mulai	jam_akhir	Aksi
A-1JH1	A-1	D-1	7	12	<button>Edit</button> <button>Delete</button>
A-1JH3	A-1	D-1	7	12	<button>Edit</button> <button>Delete</button>
A-2JH2	A-1	D-1	12	17	<button>Edit</button> <button>Delete</button>
M-1JH1	A-1	D-1	7	12	<button>Edit</button> <button>Delete</button>

## Halaman Awal untuk Table Jadwal Shift Sarana

The screenshot shows a web application interface for managing animal shifts. The left sidebar contains navigation links for Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled 'Jadwal Shift Sarana' and features a blue button labeled 'Tambah data jadwal shift Sarana'. Below this is a search bar with dropdown options for 'Show' and 'entries', and a search input field. A table lists five entries with columns: id\_jadwal\_sarana, id\_sarana, id\_pegawai, tgl\_check\_sarana, keadaan\_sarana, and Aksi. Each entry includes edit and delete buttons. At the bottom, it says 'Showing 1 to 5 of 5 entries' and has previous, next, and first buttons.

id_jadwal_sarana	id_sarana	id_pegawai	tgl_check_sarana	keadaan_sarana	Aksi
KK-JS1	KK	D-1	2022-03-01	baik	<button>Edit</button> <button>Delete</button>
KP-JS2	KP	S-1	2022-03-01	1 Rusak	<button>Edit</button> <button>Delete</button>
MP-JS1	MP	D-2	2022-07-01	baik	<button>Edit</button> <button>Delete</button>
PG-JS2	PG	S-1	2022-03-01	Baik	<button>Edit</button> <button>Delete</button>
TM-JS1	TM	S-2	2022-03-01	Baik	<button>Edit</button> <button>Delete</button>

## Halaman Awal untuk Table Pegawai

The screenshot shows a web application interface for managing employees. The left sidebar contains navigation links for Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled 'Pegawai' and features a blue button labeled 'Tambah data Pegawai'. Below this is a search bar with a dropdown for 'entries' and a search input field. A table lists five employees with columns: nama\_pegawai, ttl\_pegawai, no\_pegawai, gender\_pegawai, gaji\_pegawai, username, password, and Aksi. Each employee entry includes edit and delete buttons. At the bottom, it says 'Showing 1 to 5 of 5 entries' and has previous, next, and first buttons.

nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password	Aksi
Ariyanto	1992-06-20	81234567810	Laki-laki	500000	ariyantodmamalia	ao*200692	<button>Edit</button> <button>Delete</button>
Karina	1982-11-04	81234567896	Perempuan	500000	karinadaves	ka*041082	<button>Edit</button> <button>Delete</button>
bobby	2001-01-01	81234567899	Laki-laki	500000	bobbydmamalia	by*040102	<button>Edit</button> <button>Delete</button>
Jatmiko	1985-07-30	81234567216	Laki-laki	300000	jatmikokmamalia	jo*300785	<button>Edit</button> <button>Delete</button>
Rina	1990-09-17	8123456718	Perempuan	300000	rinakmamalia	ra*170990	<button>Edit</button>

## Operasi pada Table Hewan

Tambah Data pada table hewan dengan menambahkan sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a web application interface for managing animals in a zoo. On the left, a sidebar menu includes 'Hewan', 'Sarana', 'makanan', 'supplier', 'jadwal check up', 'jadwal shift hewan', 'jadwal shift sarana', 'pegawai', and 'logout'. The main content area has a title 'Hewan' and a sub-section 'Tambah data hewan'. The form contains fields for 'id\_hewan' (M-3), 'kategori\_hewan' (Aves), 'nama\_hewan' (Gajah), and 'jumlah\_hewan' (4). A dropdown menu 'Show' is set to '10 entries'. Below the form is a table with columns 'id\_hewan', 'kategori\_hewan', 'nama\_hewan', 'jumlah\_hewan', 'lokasi\_hewan', and 'Aksi'. The table currently lists 5 entries: A-1 (Aves, Gajah, 4, Taman-2), A-2 (Aves, Afrika-5, 3, Taman-4), A-3 (Aves, Singa, 3, Taman-2), M-1 (Mamalia, Singa, 3, Afrika-1), and M-2 (Mamalia, Lumba-lumba, 2, Akuarium-3). A 'Submit' button is at the bottom of the form. At the bottom of the page, it says 'Showing 1 to 5 of 5 entries' and has 'Previous' and 'Next' buttons.

Hasil setelah dilakukan penambahan data pada table hewan di website.

This screenshot shows the same web application after a new record has been added. The table now displays 6 entries. The new entry, M-3, has been added with the details: 'id\_hewan' M-3, 'kategori\_hewan' Aves, 'nama\_hewan' Gajah, 'jumlah\_hewan' 4, 'lokasi\_hewan' Afrika-5, and 'Aksi' buttons. The other five entries remain the same as in the previous screenshot.

Hasil setelah dilakukan penambahan data pada table hewan di database.

The screenshot shows the phpMyAdmin interface for the 'hewan' table. The table has columns: id\_hewan, kategori\_hewan, nama\_hewan, jumlah\_hewan, and lokasi\_hewan. The data is as follows:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan
<input type="checkbox"/>	A-1	Aves	Burung Merak	6	Taman-2
<input type="checkbox"/>	A-2	Aves	Burung Unta	5	Taman-4
<input type="checkbox"/>	A-3	Aves	Burung Merak	5	Taman-2
<input type="checkbox"/>	M-1	Mamalia	Singa	3	Afrika-1
<input type="checkbox"/>	M-2	Mamalia	Lumba-lumba	2	Akuarium-3
<input type="checkbox"/>	M-3	Aves	Gajah	4	Afrika-5

Update Data pada table hewan dengan mengubah sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a custom web application for managing animals. On the left is a sidebar with navigation links: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main area shows a table of animal data and a modal dialog for updating an animal's location. The table has columns: id\_hewan, kategori\_hewan, nama\_hewan, jumlah\_hewan, and lokasi\_hewan. The data is as follows:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan	Aksi
	A-1	Aves	Burung Merak	6	Taman-2	<button>Edit</button> <button>Delete</button>
	A-2	Aves	Burung Unta	5	Taman-4	<button>Edit</button> <button>Delete</button>
	A-3	Aves	Burung Merak	5	Taman-2	<button>Edit</button> <button>Delete</button>
	M-1	Mamalia	Singa	3	Afrika-1	<button>Edit</button> <button>Delete</button>
	M-2	Mamalia	Lumba-lumba	2	Akuarium-3	<button>Edit</button> <button>Delete</button>
	M-3	Aves	Gajah	4	Afrika-5	<button>Edit</button> <button>Delete</button>

The modal dialog is titled "Update Data Hewan" and contains fields for id\_hewan (M-3), kategori\_hewan (Aves), nama\_hewan (Gajah), and lokasi\_hewan (Afrika-6). The "Update" button is highlighted in yellow.

Hasil setelah dilakukan perubahan data pada table hewan di website.

The screenshot shows a web application interface titled "KEBUN BINATANG". On the left, there is a sidebar with navigation links: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled "Hewan" and contains a table with the following data:

id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan	Aksi
A-1	Aves	Burung Merak	6	Taman-2	<button>Edit</button> <button>Delete</button>
A-2	Aves	Burung Unta	5	Taman-4	<button>Edit</button> <button>Delete</button>
A-3	Aves	Burung Merak	5	Taman-2	<button>Edit</button> <button>Delete</button>
M-1	Mamalia	Singa	3	Afrika-1	<button>Edit</button> <button>Delete</button>
M-2	Mamalia	Lumba-lumba	2	Akuarium-3	<button>Edit</button> <button>Delete</button>
M-3	Aves	Gajah	4	Afrika-6	<button>Edit</button> <button>Delete</button>

At the bottom, it says "Showing 1 to 6 of 6 entries".

Hasil setelah dilakukan perubahan data pada table hewan di database.

The screenshot shows the MySQL Workbench interface. The top bar shows the connection details: Server: 127.0.0.1, Database: kbinatang, and Tabel: hewan. The main area displays the following SQL query and its results:

```
SELECT * FROM `hewan`
```

Below the query, the results are shown in a table:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan			
<input type="checkbox"/>	Ubah	Salin	Hapus	A-1	Aves	Burung Merak	6	Taman-2
<input type="checkbox"/>	Ubah	Salin	Hapus	A-2	Aves	Burung Unta	5	Taman-4
<input type="checkbox"/>	Ubah	Salin	Hapus	A-3	Aves	Burung Merak	5	Taman-2
<input type="checkbox"/>	Ubah	Salin	Hapus	M-1	Mamalia	Singa	3	Afrika-1
<input type="checkbox"/>	Ubah	Salin	Hapus	M-2	Mamalia	Lumba-lumba	2	Akuarium-3
<input type="checkbox"/>	Ubah	Salin	Hapus	M-3	Aves	Gajah	4	Afrika-6

At the bottom, there are buttons for Cetak, Salin ke clipboard, Eksport, Tampilkan bagian, and Buat tampilan.

Delete Data pada table hewan dengan menghapus sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a web application interface for managing animals in a zoo. On the left, there is a sidebar with various menu items. The main area is titled "Hewan" and displays a table of animal records. A modal dialog box is open in the center, asking for confirmation to delete a specific animal. The table data is as follows:

id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan	Aksi
A-1	Aves	Burung Merak	6	Taman-2	<button>Edit</button> <button>Delete</button>
A-2	Aves	Burung Unta	5	Taman-4	<button>Edit</button> <button>Delete</button>
A-3	Aves	Burung Merak	5	Taman-2	<button>Edit</button> <button>Delete</button>
M-1	Mamalia	Singa	3	Afrika-1	<button>Edit</button> <button>Delete</button>
M-2	Mamalia	Lumba-lumba	2	Akarium-3	<button>Edit</button> <button>Delete</button>
M-3	Aves	Gajah	4	Afrika-6	<button>Edit</button> <button>Delete</button>

At the bottom of the modal, there is a question: "Apakah Anda yakin ingin menghapus Gajah ini?" (Are you sure you want to delete the elephant?). Below the modal, the table shows "Showing 1 to 6 of 6 entries".

Hasil setelah dilakukan penghapusan data pada table hewan di website.

The screenshot shows the same web application interface after the deletion of the Gajah record. The table now displays only 5 entries. The data is as follows:

id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan	Aksi
A-1	Aves	Burung Merak	6	Taman-2	<button>Edit</button> <button>Delete</button>
A-2	Aves	Burung Unta	5	Taman-4	<button>Edit</button> <button>Delete</button>
A-3	Aves	Burung Merak	5	Taman-2	<button>Edit</button> <button>Delete</button>
M-1	Mamalia	Singa	3	Afrika-1	<button>Edit</button> <button>Delete</button>
M-2	Mamalia	Lumba-lumba	2	Akarium-3	<button>Edit</button> <button>Delete</button>

At the bottom of the table, it says "Showing 1 to 5 of 5 entries".

Hasil setelah dilakukan penghapusan data pada table hewan di database.

The screenshot shows the phpMyAdmin interface for the 'kbinatang' database. The 'hewan' table is selected. The table has columns: id\_hewan, kategori\_hewan, nama\_hewan, jumlah\_hewan, and lokasi\_hewan. There are 5 rows of data:

	id_hewan	kategori_hewan	nama_hewan	jumlah_hewan	lokasi_hewan	
1	Ubah	Salin	Hapus A-1	Aves	Burung Merak	6 Taman-2
2	Ubah	Salin	Hapus A-2	Aves	Burung Unta	5 Taman-4
3	Ubah	Salin	Hapus A-3	Aves	Burung Merak	5 Taman-2
4	Ubah	Salin	Hapus M-1	Mamalia	Singa	3 Afrika-1
5	Ubah	Salin	Hapus M-2	Mamalia	Lumba-lumba	2 Akuarium-3

## Operasi Sarana

Tambah Data pada table sarana dengan menambahkan sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a web application for managing equipment. On the left, there's a sidebar with navigation links: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main area shows a table of existing equipment. A modal window titled 'Tambah data Sarana' is open, containing fields for 'nama\_sarana' (AM) and 'deskripsi\_sarana' (Air Mancur). The 'Submit' button is highlighted in blue.

Aksi	
Edit	Delete

Hasil setelah dilakukan penambahan data pada table sarana di website.

The screenshot shows a web-based administration interface for a database named 'kebunbinatang'. On the left, there is a sidebar with navigation links: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled 'Sarana' and contains a table with the following data:

id_sarana	nama_sarana	Aksi
AM	Air Mancur	Edit Delete
KK	Kunci Keamanan Satwa	Edit Delete
KP	Kursi Pengunjung	Edit Delete
MP	Meja Pengunjung	Edit Delete
PG	Pagar dari Pengunjung	Edit Delete
TM	Tempat Makan Satwa	Edit Delete

Below the table, it says 'Showing 1 to 6 of 6 entries' and has 'Previous' and 'Next' buttons.

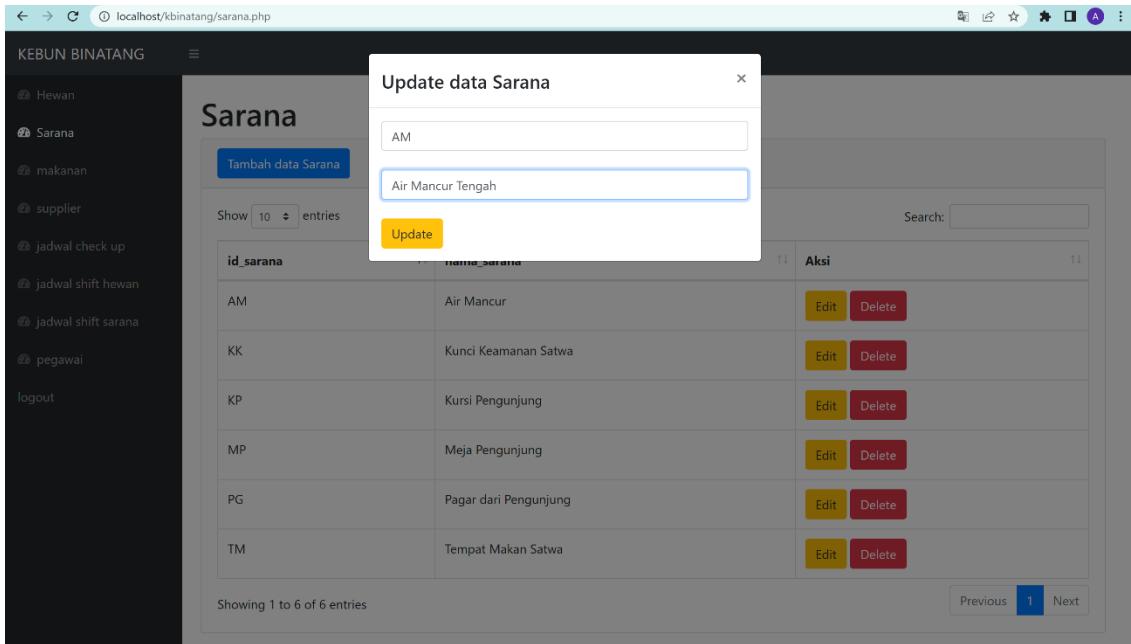
Hasil setelah dilakukan penambahan data pada table sarana di database.

The screenshot shows the 'Tabel: sarana' page in phpMyAdmin. At the top, there is a message: 'Menampilkan baris 0 - 5 (total 6, Pencarian dilakukan dalam 0,0003 detik.)'. Below that, there is a SQL query: 'SELECT \* FROM `sarana`'. The main area displays the data from the 'sarana' table:

	id_sarana	nama_sarana
<input type="checkbox"/>	AM	Air Mancur
<input type="checkbox"/>	KK	Kunci Keamanan Satwa
<input type="checkbox"/>	KP	Kursi Pengunjung
<input type="checkbox"/>	MP	Meja Pengunjung
<input type="checkbox"/>	PG	Pagar dari Pengunjung
<input type="checkbox"/>	TM	Tempat Makan Satwa

At the bottom, there are buttons for 'Operasi hasil kueri' (Print, Copy to clipboard, Export, View, Create view) and a 'Markahi kueri SQL ini' button.

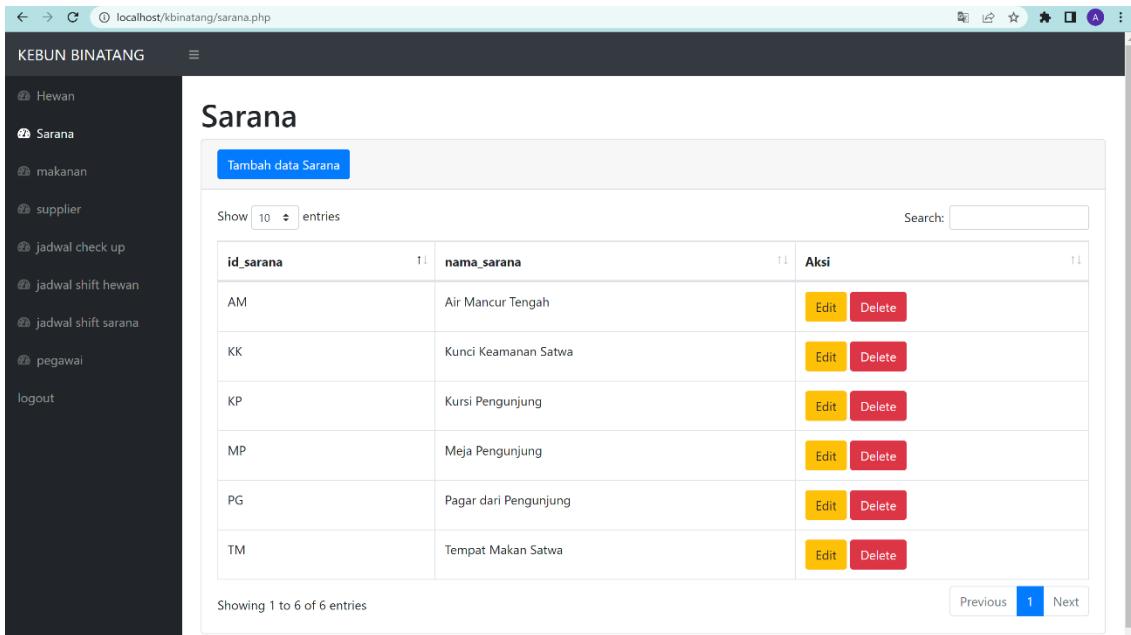
Update Data pada table sarana dengan mengubah sebuah data dengan rincian seperti gambar berikut.



The screenshot shows a web-based application for managing equipment (sarana) in a zoo (Kebun Binatang). The main menu on the left includes options like Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The current page is 'Sarana', displaying a table of equipment items. A modal window titled 'Update data Sarana' is open, showing the current value 'AM' in a text input field and the new value 'Air Mancur Tengah' in a larger text area. An 'Update' button is visible at the bottom of the modal. The table in the background lists six items: AM (Air Mancur), KK (Kunci Keamanan Satwa), KP (Kursi Pengunjung), MP (Meja Pengunjung), PG (Pagar dari Pengunjung), and TM (Tempat Makan Satwa), each with 'Edit' and 'Delete' buttons.

id_sarana	nama_sarana	Aksi
AM	Air Mancur	Edit Delete
KK	Kunci Keamanan Satwa	Edit Delete
KP	Kursi Pengunjung	Edit Delete
MP	Meja Pengunjung	Edit Delete
PG	Pagar dari Pengunjung	Edit Delete
TM	Tempat Makan Satwa	Edit Delete

Hasil setelah dilakukan perubahan data pada table sarana di database.



The screenshot shows the same web application after the update. The table now displays the updated data. The row for 'AM' now shows 'Air Mancur Tengah' in the 'nama\_sarana' column, indicating the successful update. The other five rows (KK, KP, MP, PG, TM) remain unchanged. The modal window from the previous screenshot is no longer present.

id_sarana	nama_sarana	Aksi
AM	Air Mancur Tengah	Edit Delete
KK	Kunci Keamanan Satwa	Edit Delete
KP	Kursi Pengunjung	Edit Delete
MP	Meja Pengunjung	Edit Delete
PG	Pagar dari Pengunjung	Edit Delete
TM	Tempat Makan Satwa	Edit Delete

Hasil setelah dilakukan perubahan data pada table sarana di database.

The screenshot shows the phpMyAdmin interface for the 'sarana' table. The table has two columns: 'id\_sarana' and 'nama\_sarana'. The data is as follows:

	id_sarana	nama_sarana
<input type="checkbox"/>	AM	Air Mancur Tengah
<input type="checkbox"/>	KK	Kunci Keamanan Satwa
<input type="checkbox"/>	KP	Kursi Pengunjung
<input type="checkbox"/>	MP	Meja Pengunjung
<input type="checkbox"/>	PG	Pagar dari Pengunjung
<input type="checkbox"/>	TM	Tempat Makan Satwa

Below the table, there are buttons for 'Pilih Semua' (Select All), 'Dengan pilihan:' (With Selection), 'Ubah' (Edit), 'Salin' (Copy), 'Hapus' (Delete), and 'Eksport' (Export). There are also links for 'Cetak' (Print), 'Salin ke clipboard' (Copy to Clipboard), 'Eksport', 'Tampilkan bagian' (Show Part), and 'Buat tampilan' (Create View). A link 'Markahi kueri SQL ini' (Mark this query) is also present.

Delete Data pada table sarana dengan menghapus sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a custom application interface for managing 'Sarana'. On the left, there is a sidebar with navigation items: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main area is titled 'Sarana' and contains a table with the same data as the previous screenshot. A modal dialog box titled 'Delete data Sarana' is open, asking 'Apakah Anda yakin ingin menghapus Air Mancur Tengah ini?'. Below the question are 'Delete' and 'Cancel' buttons. The table data is as follows:

id_sarana	nama_sarana	Aksi
AM	Air Mancur Tengah	<button>Edit</button> <button>Delete</button>
KK	Kunci Keamanan Satwa	<button>Edit</button> <button>Delete</button>
KP	Kursi Pengunjung	<button>Edit</button> <button>Delete</button>
MP	Meja Pengunjung	<button>Edit</button> <button>Delete</button>
PG	Pagar dari Pengunjung	<button>Edit</button> <button>Delete</button>
TM	Tempat Makan Satwa	<button>Edit</button> <button>Delete</button>

At the bottom of the main area, it says 'Showing 1 to 6 of 6 entries' and has 'Previous' and 'Next' buttons.

Hasil setelah dilakukan penghapusan data pada table sarana di website.

The screenshot shows a web-based application interface for managing 'Sarana'. On the left, a sidebar menu includes 'Hewan', 'Sarana' (which is currently selected), 'makanan', 'supplier', 'jadwal check up', 'jadwal shift hewan', 'jadwal shift sarana', 'pegawai', and 'logout'. The main content area is titled 'Sarana' and contains a table with the following data:

id_sarana	nama_sarana	Aksi
KK	Kunci Keamanan Satwa	Edit Delete
KP	Kursi Pengunjung	Edit Delete
MP	Meja Pengunjung	Edit Delete
PG	Pagar dari Pengunjung	Edit Delete
TM	Tempat Makan Satwa	Edit Delete

Below the table, a message indicates "Showing 1 to 5 of 5 entries".

Hasil setelah dilakukan penghapusan data pada table sarana di database.

The screenshot shows the 'sarana' table in phpMyAdmin. The table structure is identical to the one in the web application, with columns 'id\_sarana' and 'nama\_sarana'. The data is the same as shown in the previous screenshot. The 'Operasi' (Operations) column for each row contains icons for 'Ubah' (Edit), 'Salin' (Copy), 'Hapus' (Delete), and 'Eksport' (Export). The 'Hapus' icon is highlighted, indicating it was used to delete the data.

## Operasi Makana

Tambah Data pada table makanan dengan menambahkan sebuah data dengan rincian seperti gambar berikut.

KEBUN BINATANG

Makanan

Tambah data Makanan

ID	Hewan	Nama Makanan	Stok Makanan	Aksi
DG-1	M-1	Daging Sapi	20kg	Edit Delete
DG-2	M-1	Ayam	20 kg	Edit Delete
IK-1	M-2	Ikan	100 kg	Edit Delete
SR-4	A-1	Jangkrik	5kg	Edit Delete
SY-6	A-2	Kangkung	20ikat	Edit Delete

Showing 1 to 5 of 5 entries

Hasil setelah dilakukan penambahan data pada table makanan di website.

KEBUN BINATANG

Makanan

Tambah data Makanan

ID	Hewan	Nama Makanan	Stok Makanan	Aksi
DG-1	M-1	Daging Sapi	20kg	Edit Delete
DG-2	M-1	Ayam	20 kg	Edit Delete
DG-3	M-2	Ikan	100 kg	Edit Delete
IK-1	M-2	Ikan	15kg	Edit Delete
SR-4	A-1	Jangkrik	5kg	Edit Delete
SY-6	A-2	Kangkung	20ikat	Edit Delete

Showing 1 to 6 of 6 entries

Hasil setelah dilakukan penambahan data pada table makanan di database.

The screenshot shows the phpMyAdmin interface for the 'makanan' table. The table has columns: id\_makanan, id\_hewan, nama\_makanan, and stok\_makanan. The data is as follows:

	id_makanan	id_hewan	nama_makanan	stok_makanan
Ubah	DG-1	M-1	Daging Sapi	20kg
Ubah	DG-2	M-1	Ayam	20 kg
Ubah	DG-3	M-2	Ikan	100 kg
Ubah	IK-1	M-2	Ikan	15kg
Ubah	SR-4	A-1	Jangkrik	5kg
Ubah	SY-6	A-2	Kangkung	20kat

Update Data pada table makanan dengan mengubah sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a custom web application interface for managing animal food. On the left, there's a sidebar with navigation links like 'Hewan', 'Sarana', 'makanan', 'supplier', etc. The main area has a table titled 'Makanan' with columns: id\_makanan, id\_hewan, nama\_makanan, and stok\_makanan. A modal dialog titled 'Update data Makanan' is open, showing fields for id\_makanan (DG-3), id\_hewan (Burung Merak), nama\_makanan (Ikan), and stok\_makanan (10 kg). An 'Update' button is at the bottom of the modal. The background table shows other records like DG-1, DG-2, IK-1, SR-4, SY-6, and their details.

Hasil setelah dilakukan perubahan data pada table makanan di website.

id_makanan	id_hewan	nama_makanan	stok_makanan	Aksi
DG-1	M-1	Daging Sapi	20kg	<button>Edit</button> <button>Delete</button>
DG-2	M-1	Ayam	20 kg	<button>Edit</button> <button>Delete</button>
DG-3	A-1	Ikan	10 kg	<button>Edit</button> <button>Delete</button>
IK-1	M-2	Ikan	15kg	<button>Edit</button> <button>Delete</button>
SR-4	A-1	Jangkrik	5kg	<button>Edit</button> <button>Delete</button>
SY-6	A-2	Kangkung	20ikat	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan perubahan data pada table makanan di database.

	id_makanan	id_hewan	nama_makanan	stok_makanan
<input type="checkbox"/>	Ubah	Salin	Hapus	DG-1
<input type="checkbox"/>	Ubah	Salin	Hapus	DG-2
<input type="checkbox"/>	Ubah	Salin	Hapus	DG-3
<input type="checkbox"/>	Ubah	Salin	Hapus	IK-1
<input type="checkbox"/>	Ubah	Salin	Hapus	SR-4
<input type="checkbox"/>	Ubah	Salin	Hapus	SY-6

Delete Data pada table makanan dengan menghapus sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a web application interface for managing animal feed. On the left, a sidebar menu includes options like Hewan, Sarana, makanan (selected), supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, and pegawai, along with a logout link. The main content area is titled 'Makanan' and contains a table of food items. A modal dialog box titled 'Delete data Makanan' is displayed, asking 'Apakah Anda yakin ingin menghapus Ikan ini?' (Are you sure you want to delete Fish?). The table data is as follows:

id_makanan	id_hewan	nama_makanan	stok_makanan	Aksi
DG-1	M-1	Daging Sapi	20kg	Edit Delete
DG-2	M-1	Ayam	20 kg	Edit Delete
DG-3	A-1	Ikan	10 kg	Edit Delete
IK-1	M-2	Ikan	15kg	Edit Delete
SR-4	A-1	Jangkrik	5kg	Edit Delete
SY-6	A-2	Kangkung	20ikat	Edit Delete

At the bottom of the table, it says 'Showing 1 to 6 of 6 entries'. The modal has a red 'Delete' button.

Hasil setelah dilakukan penghapusan data pada table makanan di website.

This screenshot shows the same web application after the food data has been deleted. The table now displays only five entries, indicating that the row for 'Ikan' (ID DG-3) has been removed. The table data is as follows:

id_makanan	id_hewan	nama_makanan	stok_makanan	Aksi
DG-1	M-1	Daging Sapi	20kg	Edit Delete
DG-2	M-1	Ayam	20 kg	Edit Delete
IK-1	M-2	Ikan	15kg	Edit Delete
SR-4	A-1	Jangkrik	5kg	Edit Delete
SY-6	A-2	Kangkung	20ikat	Edit Delete

At the bottom of the table, it says 'Showing 1 to 5 of 5 entries'. The 'Delete' button in the modal is now grayed out.

Hasil setelah dilakukan penghapusan data pada table makanan di database.

The screenshot shows the phpMyAdmin interface for the 'makanan' table. The table has columns: id\_makanan, id\_hewan, nama\_makanan, and stok\_makanan. The data is as follows:

	id_makanan	id_hewan	nama_makanan	stok_makanan			
<input type="checkbox"/>	Ubah	<input type="checkbox"/> Salin	<input type="checkbox"/> Hapus	DG-1	M-1	Daging Sapi	20kg
<input type="checkbox"/>	Ubah	<input type="checkbox"/> Salin	<input type="checkbox"/> Hapus	DG-2	M-1	Ayam	20 kg
<input type="checkbox"/>	Ubah	<input type="checkbox"/> Salin	<input type="checkbox"/> Hapus	IK-1	M-2	Ikan	15kg
<input type="checkbox"/>	Ubah	<input type="checkbox"/> Salin	<input type="checkbox"/> Hapus	SR-4	A-1	Jangkrik	5kg
<input type="checkbox"/>	Ubah	<input type="checkbox"/> Salin	<input type="checkbox"/> Hapus	SY-6	A-2	Kangkung	20ikat

## Operasi Supplier

Tambah Data pada table supplier dengan menambahkan sebuah data dengan rincian seperti gambar berikut.

The screenshot shows the 'Supplier' form in the KEBUN BINATANG application. The form has fields for ID (IK-161), Name (Ikan), and Contact Person (Billy). The table below shows existing supplier data:

ID	Supplier ID	Name	Contact Person	Date	Action
1	DG-188	Ikan	Billy	2022-07-01	<button>Edit</button> <button>Delete</button>
2	DG-189			2022-07-01	<button>Edit</button> <button>Delete</button>
3	IK-150			2022-03-23	<button>Edit</button> <button>Delete</button>
4	SR-402	SR-4	Nela	2022-03-21	<button>Edit</button> <button>Delete</button>
5	SY-613	SY-6	Dedi	2022-03-23	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan penambahan data pada table supplier di website.

The screenshot shows a web application interface titled "KEBUN BINATANG". On the left sidebar, there are several menu items: Hewan, Sarana, makanan, supplier (which is currently selected), jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled "Supplier" and contains a table with the following data:

id_supplier	id_makanan	nama_supplier	no_supplier	tgl_supplier	Aksi
DG-188	DG-2	Bonny	812345678	2022-07-01	<button>Edit</button> <button>Delete</button>
DG-189	DG-2	Billy	812345687	2022-07-01	<button>Edit</button> <button>Delete</button>
IK-150	IK-1	Risa	812345620	2022-03-23	<button>Edit</button> <button>Delete</button>
IK-161	IK-1	Billy	812345667	2022-06-26	<button>Edit</button> <button>Delete</button>
SR-402	SR-4	Nela	812345645	2022-03-21	<button>Edit</button> <button>Delete</button>
SY-613	SY-6	Dedi	812345692	2022-03-23	<button>Edit</button> <button>Delete</button>

At the bottom of the table, it says "Showing 1 to 6 of 6 entries". There are navigation buttons for "Previous" and "Next".

Hasil setelah dilakukan penambahan data pada table supplier di database.

The screenshot shows the "Tabel supplier" (supplier table) in the phpMyAdmin interface. The table has the same structure and data as the one in the web application:

id_supplier	id_makanan	nama_supplier	no_supplier	tgl_supplier
DG-188	DG-2	Bonny	812345678	2022-07-01
DG-189	DG-2	Billy	812345687	2022-07-01
IK-150	IK-1	Risa	812345620	2022-03-23
IK-161	IK-1	Billy	812345667	2022-06-26
SR-402	SR-4	Nela	812345645	2022-03-21
SY-613	SY-6	Dedi	812345692	2022-03-23

Below the table, there are various management options like "Pilih Semua", "Dengan pilihan:", and buttons for "Ubah", "Salin", "Hapus", "Ekspor", etc. At the bottom, there are links for "Cetak", "Salin ke clipboard", "Ekspor", "Tampilkan bagan", "Buat tampilan", "Markahi kueri SQL ini", and "Konsol".

Update Data pada table supplier dengan mengubah sebuah data dengan rincian seperti gambar berikut.

localhost/kbinatang/supplier.php

Supplier

Update data Supplier

Supplier		Aksi		
ID	Nama Supplier	No. Supplier	Tgl. Supplier	
DG-188	Daging Sapi	812345680	2022-07-01	<button>Edit</button> <button>Delete</button>
DG-189	Billy	812345687	2022-07-01	<button>Edit</button> <button>Delete</button>
IK-150		812345667	2022-03-23	<button>Edit</button> <button>Delete</button>
IK-161	Billy	812345645	2022-07-02	<button>Edit</button> <button>Delete</button>
SR-402	Nela	812345692	2022-03-21	<button>Edit</button> <button>Delete</button>
SY-613	Dedi	812345692	2022-03-23	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan perubahan data pada table supplier di website.

localhost/kbinatang/supplier.php

Supplier

Tambah data Supplier

Supplier		Aksi			
ID	ID Makanan	Nama Supplier	No. Supplier	Tgl. Supplier	
DG-188	DG-2	Bonny	812345678	2022-07-01	<button>Edit</button> <button>Delete</button>
DG-189	DG-2	Billy	812345687	2022-07-01	<button>Edit</button> <button>Delete</button>
IK-150	IK-1	Risa	812345620	2022-03-23	<button>Edit</button> <button>Delete</button>
IK-161	DG-1	Billy	812345680	2022-07-02	<button>Edit</button> <button>Delete</button>
SR-402	SR-4	Nela	812345645	2022-03-21	<button>Edit</button> <button>Delete</button>
SY-613	SY-6	Dedi	812345692	2022-03-23	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan perubahan data pada table supplier di database.

The screenshot shows the phpMyAdmin interface for the 'supplier' table. At the top, a green status bar indicates 'Menampilkan baris 0 - 5 (total 6, Pencarian dilakukan dalam 0,0001 detik.)'. Below it, the SQL query 'SELECT \* FROM `supplier`' is displayed. The main table view shows 6 rows of data:

	id_supplier	id_makanan	nama_supplier	no_supplier	tgl_supplier
<a href="#">Ubah</a> <a href="#">Salin</a> <a href="#">Hapus</a>	DG-188	DG-2	Bonny	812345678	2022-07-01
<a href="#">Ubah</a> <a href="#">Salin</a> <a href="#">Hapus</a>	DG-189	DG-2	Billy	812345687	2022-07-01
<a href="#">Ubah</a> <a href="#">Salin</a> <a href="#">Hapus</a>	IK-150	IK-1	Risa	812345620	2022-03-23
<a href="#">Ubah</a> <a href="#">Salin</a> <a href="#">Hapus</a>	IK-161	DG-1	Billy	812345680	2022-07-02
<a href="#">Ubah</a> <a href="#">Salin</a> <a href="#">Hapus</a>	SR-402	SR-4	Nela	812345645	2022-03-21
<a href="#">Ubah</a> <a href="#">Salin</a> <a href="#">Hapus</a>	SY-613	SY-6	Dedi	812345692	2022-03-23

Below the table are various management buttons like 'Pilih Semua', 'Dengan pilihan:', and 'Operasi hasil kueri' (Print, Copy to clipboard, Export, etc.).

Delete Data pada table supplier dengan menghapus sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a web-based application for managing suppliers. On the left, a sidebar lists categories: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main area is titled 'Supplier' and contains a table of data. A modal dialog box titled 'Delete data Supplier' is open, asking 'Apakah Anda yakin ingin menghapus Billy ini?' (Are you sure you want to delete 'Billy'?). The table below shows the data:

id_supplier	id_makanan	nama_supplier	no_supplier	tgl_supplier	Aksi
DG-188	DG-2	Bonny	812345678	2022-07-01	<a href="#">Edit</a> <a href="#">Delete</a>
DG-189	DG-2	Billy	812345687	2022-07-01	<a href="#">Edit</a> <a href="#">Delete</a>
IK-150	IK-1	Risa	812345620	2022-03-23	<a href="#">Edit</a> <a href="#">Delete</a>
IK-161	IK-1	Billy	812345667	2022-06-26	<a href="#">Edit</a> <a href="#">Delete</a>
SR-402	SR-4	Nela	812345645	2022-03-21	<a href="#">Edit</a> <a href="#">Delete</a>
SY-613	SY-6	Dedi	812345692	2022-03-23	<a href="#">Edit</a> <a href="#">Delete</a>

At the bottom of the table, it says 'Showing 1 to 6 of 6 entries' and has navigation buttons for 'Previous', 'Next', and page number '1'.

Hasil setelah dilakukan penghapusan data pada table supplier di website.

id_supplier	id_makanan	nama_supplier	no_supplier	tgl_supplier	Aksi
DG-188	DG-2	Bonny	812345678	2022-07-01	<button>Edit</button> <button>Delete</button>
DG-189	DG-2	Billy	812345687	2022-07-01	<button>Edit</button> <button>Delete</button>
IK-150	IK-1	Risa	812345620	2022-03-23	<button>Edit</button> <button>Delete</button>
SR-402	SR-4	Nela	812345645	2022-03-21	<button>Edit</button> <button>Delete</button>
SY-613	SY-6	Dedi	812345692	2022-03-23	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan penghapusan data pada table supplier di database.

	id_supplier	id_makanan	nama_supplier	no_supplier	tgl_supplier			
<input type="checkbox"/>	Ubah	Salin	Hapus	DG-188	DG-2	Bonny	812345678	2022-07-01
<input type="checkbox"/>	Ubah	Salin	Hapus	DG-189	DG-2	Billy	812345687	2022-07-01
<input type="checkbox"/>	Ubah	Salin	Hapus	IK-150	IK-1	Risa	812345620	2022-03-23
<input type="checkbox"/>	Ubah	Salin	Hapus	SR-402	SR-4	Nela	812345645	2022-03-21
<input type="checkbox"/>	Ubah	Salin	Hapus	SY-613	SY-6	Dedi	812345692	2022-03-23

## Operasi Jadwal Check Up

Tambah Data pada table jadwal check up dengan menambahkan sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a modal window titled "Tambah data jadwal checkup" (Add schedule checkup) overlaid on a table of existing data. The modal has input fields for "id\_checkup" (A-2CUS), "id\_hewan" (Burung Merak), "id\_pegawai" (Rina), and "tgl\_checkup" (01/07/2022). Below the modal is a table with columns "id\_checkup", "id\_hewan", "id\_pegawai", "tgl\_checkup", and "Aksi". The table contains five rows of data, each with "Edit" and "Delete" buttons. The page URL is localhost/kbinatang/jadwalcheckup.php.

id_checkup	id_hewan	id_pegawai	tgl_checkup	Aksi
A-1CU2			2022-03-10	<button>Edit</button> <button>Delete</button>
A-2CU3			2022-03-10	<button>Edit</button> <button>Delete</button>
A-2CU4	A-1	D-1	2022-07-08	<button>Edit</button> <button>Delete</button>
M-1CU1	M-2	D-1	2022-02-14	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan penambahan data pada table jadwal check up di website.

The screenshot shows the same web application after the new data has been added. The table now displays six rows of data. The newly added row (A-2CUS, Burung Merak, Rina, 01/07/2022) is the fifth row. The page URL is localhost/kbinatang/jadwalcheckup.php.

id_checkup	id_hewan	id_pegawai	tgl_checkup	Aksi
A-1CU2	A-2	D-2	2022-03-10	<button>Edit</button> <button>Delete</button>
A-2CU3	A-1	D-1	2022-03-10	<button>Edit</button> <button>Delete</button>
A-2CU4	A-1	D-1	2022-07-08	<button>Edit</button> <button>Delete</button>
A-2CUS	A-3	K-2	2022-07-01	<button>Edit</button> <button>Delete</button>
M-1CU1	M-2	D-1	2022-02-14	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan penambahan data pada table jadwal check up di database.

The screenshot shows the phpMyAdmin interface for the 'jadwal\_checkup' table. The table has columns: id\_checkup, id\_hewan, id\_pegawai, and tanggal\_checkup. The data is as follows:

	id_checkup	id_hewan	id_pegawai	tanggal_checkup
<input type="checkbox"/>	A-1CU2	A-2	D-2	2022-03-10
<input type="checkbox"/>	A-2CU3	A-1	D-1	2022-03-10
<input type="checkbox"/>	A-2CU4	A-1	D-1	2022-07-08
<input type="checkbox"/>	A-2CU5	A-3	K-2	2022-07-01
<input type="checkbox"/>	M-1CU1	M-2	D-1	2022-02-14

Update Data pada table jadwal check up dengan mengubah sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a modal window titled 'Update data jadwal checkup'. The form contains the following fields:

- Hewan: A-2CUS
- Pegawai: Burung Merak
- Tanggal: 01/07/2022
- Update button

Below the modal, the main table view shows the updated data row with id A-2CUS, hewan Burung Merak, and pegawai Bampong.

id_checkup	id_hewan	id_pegawai	tanggal_checkup	Aksi
A-1CU2	A-2	D-2	2022-03-10	<button>Edit</button> <button>Delete</button>
A-2CU3	A-1	D-1	2022-03-10	<button>Edit</button> <button>Delete</button>
A-2CU4	A-1	D-1	2022-07-08	<button>Edit</button> <button>Delete</button>
A-2CU5	A-3	K-2	2022-07-01	<button>Edit</button> <button>Delete</button>
M-1CU1	M-2	D-1	2022-02-14	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan perubahan data pada table jadwal check up di website.

id_checkup	id_hewan	id_pegawai	tgl_checkup	Aksi
A-1CU2	A-2	D-2	2022-03-10	<button>Edit</button> <button>Delete</button>
A-2CU3	A-1	D-1	2022-03-10	<button>Edit</button> <button>Delete</button>
A-2CU4	A-1	D-1	2022-07-08	<button>Edit</button> <button>Delete</button>
A-2CU5	A-1	S-1	2022-07-01	<button>Edit</button> <button>Delete</button>
M-1CU1	M-2	D-1	2022-02-14	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan perubahan data pada table jadwal check up di database.

	id_checkup	id_hewan	id_pegawai	tanggal_checkup			
<input type="checkbox"/>	Ubah	Salin	Hapus	A-1CU2	A-2	D-2	2022-03-10
<input type="checkbox"/>	Ubah	Salin	Hapus	A-2CU3	A-1	D-1	2022-03-10
<input type="checkbox"/>	Ubah	Salin	Hapus	A-2CU4	A-1	D-1	2022-07-08
<input type="checkbox"/>	Ubah	Salin	Hapus	A-2CU5	A-1	S-1	2022-07-01
<input type="checkbox"/>	Ubah	Salin	Hapus	M-1CU1	M-2	D-1	2022-02-14

Delete Data pada table jadwal check up dengan menghapus sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a web browser window with the URL `localhost/kbinatang/jadwalcheckup.php`. On the left, there is a sidebar with navigation links: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled "Jadwal Checkup" and contains a table with five rows of data. A modal dialog box is overlaid on the page, titled "Delete data Jadwal Checkup", with the message "Apakah Anda yakin ingin menghapus A-2CU5 ini?". At the bottom of the modal is a red "Delete" button. The table data is as follows:

id_checkup	id_hewan	id_pegawai	tgl_checkup	Aksi
A-1CU2	A-2	D-2	2022-03-10	Edit Delete
A-2CU3	A-1	D-1	2022-03-10	Edit Delete
A-2CU4	A-1	D-1	2022-07-08	Edit Delete
A-2CU5	A-1	S-1	2022-07-01	Edit Delete
M-1CU1	M-2	D-1	2022-02-14	Edit Delete

At the bottom of the table, it says "Showing 1 to 5 of 5 entries".

Hasil setelah dilakukan penghapusan data pada table jadwal check up di website.

This screenshot shows the same web application after the data row for "A-2CU5" has been deleted. The main content area is titled "Jadwal Check Up" and contains a table with four rows of data. The table data is as follows:

id_checkup	id_hewan	id_pegawai	tgl_checkup	Aksi
A-1CU2	A-2	D-2	2022-03-10	Edit Delete
A-2CU3	A-1	D-1	2022-03-10	Edit Delete
A-2CU4	A-1	D-1	2022-07-08	Edit Delete
M-1CU1	M-2	D-1	2022-02-14	Edit Delete

At the bottom of the table, it says "Showing 1 to 4 of 4 entries".

Hasil setelah dilakukan penghapusan data pada table jadwal check up di database.

## Operasi Jadwal Shift Hewan

Tambah Data pada table jadwal shift hewan dengan menambahkan sebuah data dengan rincian seperti gambar berikut.

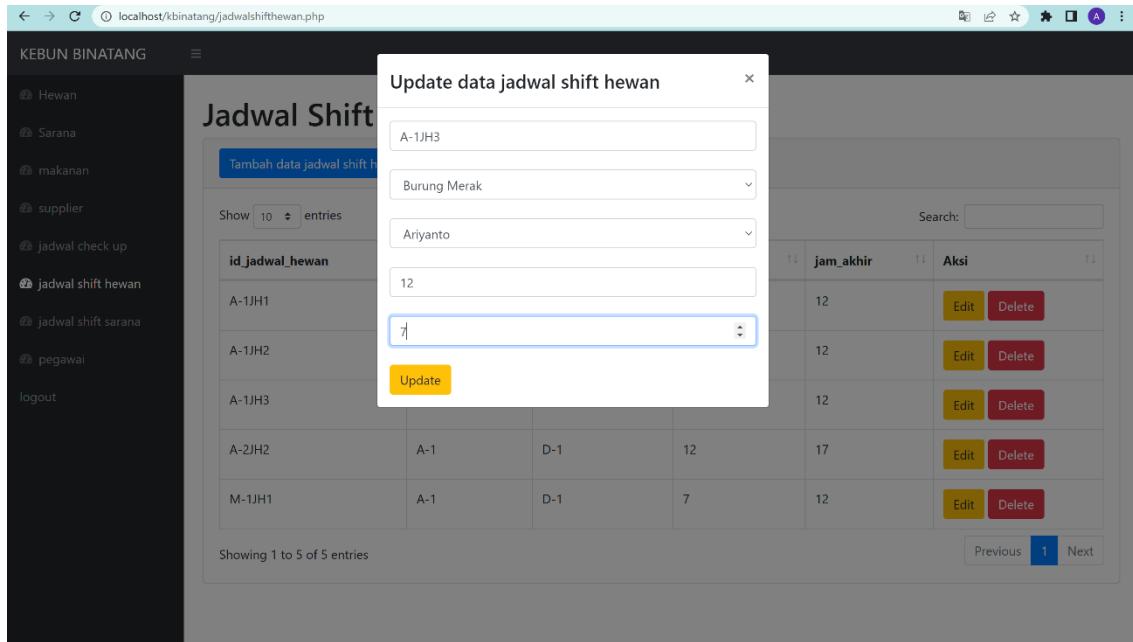
Hasil setelah dilakukan penambahan data pada table jadwal shift hewan di website.

<b>id_jadwal_hewan</b>	<b>id_hewan</b>	<b>id_pegawai</b>	<b>jam_mulai</b>	<b>jam_akhir</b>	<b>Aksi</b>
A-1JH1	A-1	D-1	7	12	<a href="#">Edit</a> <a href="#">Delete</a>
A-1JH2	A-3	K-4	7	12	<a href="#">Edit</a> <a href="#">Delete</a>
A-1JH3	A-1	D-1	7	12	<a href="#">Edit</a> <a href="#">Delete</a>
A-2JH2	A-1	D-1	12	17	<a href="#">Edit</a> <a href="#">Delete</a>
M-1JH1	A-1	D-1	7	12	<a href="#">Edit</a> <a href="#">Delete</a>

Hasil setelah dilakukan penambahan data pada table jadwal shift hewan di database.

<b>id_jadwal_hewan</b>	<b>id_hewan</b>	<b>id_pegawai</b>	<b>jam_mulai</b>	<b>jam_akhir</b>
A-1JH1	A-1	D-1	7	12
A-1JH2	A-3	K-4	7	12
A-1JH3	A-1	D-1	7	12
A-2JH2	A-1	D-1	12	17
M-1JH1	A-1	D-1	7	12

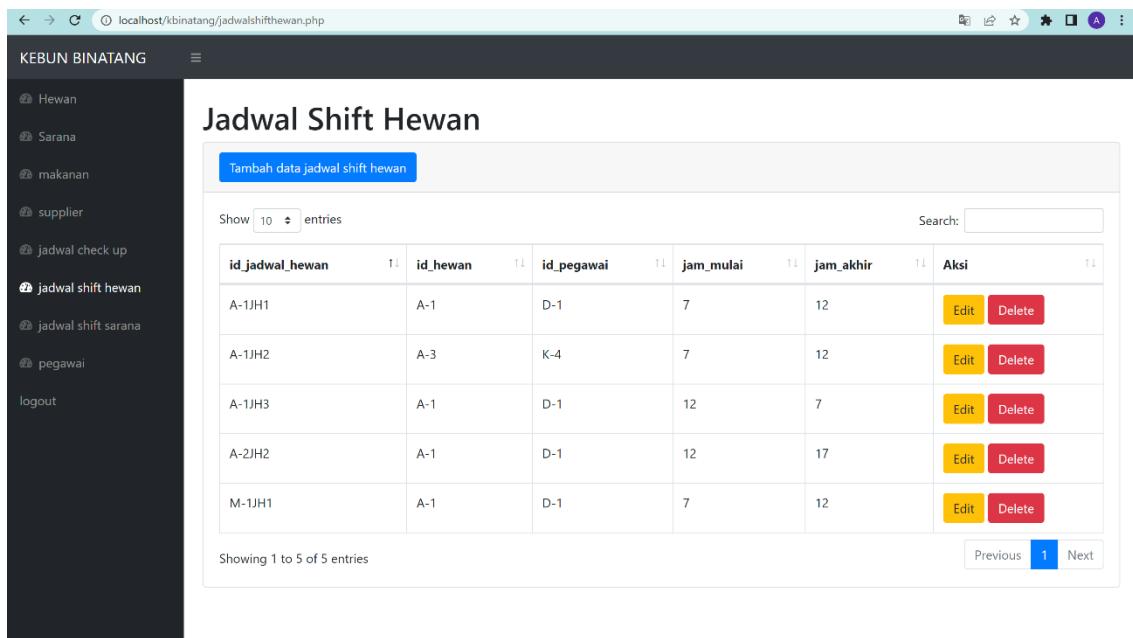
Update Data pada table jadwal shift hewan dengan mengubah sebuah data dengan rincian seperti gambar berikut.



The screenshot shows a modal dialog titled "Update data jadwal shift hewan". Inside the dialog, there are four input fields: "id\_jadwal\_hewan" (A-1JH3), "id\_hewan" (Burung Merak), "id\_pegawai" (Ariyanto), and "jam\_akhir" (12). Below the dialog is a table with five rows of data, each with "Edit" and "Delete" buttons. The table has columns: id\_jadwal\_hewan, id\_hewan, id\_pegawai, jam\_mulai, jam\_akhir, and Aksi. The data in the table is as follows:

id_jadwal_hewan	id_hewan	id_pegawai	jam_mulai	jam_akhir	Aksi
A-1JH1			12	12	<button>Edit</button> <button>Delete</button>
A-1JH2			12	12	<button>Edit</button> <button>Delete</button>
A-1JH3			12	12	<button>Edit</button> <button>Delete</button>
A-2JH2	A-1	D-1	12	17	<button>Edit</button> <button>Delete</button>
M-1JH1	A-1	D-1	7	12	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan perubahan data pada table jadwal shift hewan di website.



The screenshot shows the same table after the update. The changes are reflected in the data:

id_jadwal_hewan	id_hewan	id_pegawai	jam_mulai	jam_akhir	Aksi
A-1JH1	A-1	D-1	7	12	<button>Edit</button> <button>Delete</button>
A-1JH2	A-3	K-4	7	12	<button>Edit</button> <button>Delete</button>
A-1JH3	A-1	D-1	12	7	<button>Edit</button> <button>Delete</button>
A-2JH2	A-1	D-1	12	17	<button>Edit</button> <button>Delete</button>
M-1JH1	A-1	D-1	7	12	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan perubahan data pada table jadwal shift hewan di database.

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** 127.0.0.1
- Database:** kbinatang
- Table:** jadwal\_shift\_hewan
- Query Result:** Menampilkan baris 0 - 4 (total 5, Pencarian dilakukan dalam 0.0002 detik.)  
SELECT \* FROM `jadwal\_shift\_hewan`
- Operations:** Profil, Edit dikotak, Ubah, Jelaskan SQL, Buat kode PHP, Segarkan.
- Table Data:** A table with columns: id\_jadwal\_hewan, id\_hewan, id\_pegawai, jam\_mulai, jam\_akhir. The data is:

id_jadwal_hewan	id_hewan	id_pegawai	jam_mulai	jam_akhir
A-1JH1	A-1	D-1	7	12
A-1JH2	A-3	K-4	7	12
A-1JH3	A-1	D-1	12	7
A-2JH2	A-1	D-1	12	17
M-1JH1	A-1	D-1	7	12
- Buttons:** Tampilkan semua, Jumlah baris: 25, Saring baris: Cari di tabel ini, Sort by key: Tidak ada.
- Extra Options:** Extra options button.
- Operasi hasil query:** Cetak, Salin ke clipboard, Eksport, Tampilkan bagan, Buat tampilan.
- SQL Editor:** Markahi kueri SQL ini, Judul: Konsol, Izinkan semua pengguna untuk mengakses markah ini.

Delete Data pada table jadwal shift hewan dengan menghapus sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a custom web application interface with the following details:

- Left Sidebar:** KEBUN BINATANG, with menu items: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, logout.
- Main Content:** Jadwal Shift, showing a table of data and a modal dialog.
- Modal Dialog:** Delete data Jadwal Shift Hewan. Question: Apakah Anda yakin ingin menghapus A-1JH2 ini? Buttons: Delete (highlighted), Cancel.
- Table Data:** A table with columns: id\_jadwal\_hewan, id\_hewan, id\_pegawai, jam\_mulai, jam\_akhir, Aksi. The data is:

id_jadwal_hewan	id_hewan	id_pegawai	jam_mulai	jam_akhir	Aksi
A-1JH1	A-1	D-1	7	12	Edit Delete
A-1JH2	A-3	K-4	7	12	Edit Delete
A-1JH3	A-1	D-1	12	7	Edit Delete
A-2JH2	A-1	D-1	12	17	Edit Delete
M-1JH1	A-1	D-1	7	12	Edit Delete
- Table Footer:** Show: 10 entries, Search: input field, Previous, Next.

Hasil setelah dilakukan penghapusan data pada table jadwal shift hewan di website.

id\_jadwal\_hewan	id\_hewan	id\_pegawai	jam\_mulai	jam\_akhir	Aksi
A-1JH1	A-1	D-1	7	12	Edit Delete
A-1JH3	A-1	D-1	12	7	Edit Delete
A-2JH2	A-1	D-1	12	17	Edit Delete
M-1JH1	A-1	D-1	7	12	Edit Delete

 Below the table, it says 'Showing 1 to 4 of 4 entries' and has navigation buttons for 'Previous', '1', and 'Next'."/>

Hasil setelah dilakukan penghapusan data pada table jadwal shift hewan di database.

id\_jadwal\_hewan	id\_hewan	id\_pegawai	jam\_mulai	jam\_akhir
A-1JH1	A-1	D-1	7	12
A-1JH3	A-1	D-1	12	7
A-2JH2	A-1	D-1	12	17
M-1JH1	A-1	D-1	7	12

 The interface includes tabs for 'Jelajahi', 'Struktur', 'SQL', 'Caril', 'Tambahkan', 'Ekspor', 'Import', 'Hak Akses', 'Operasi', 'Pelacakan', and 'Trigger'. There are also buttons for 'Ubah', 'Salin', 'Hapus', 'Cetak', 'Salin ke clipboard', 'Eksport', 'Tampilkan bagan', 'Buat tampilan', and 'Markah kueri SQL ini'."/>

## Operasi Jadwal Shift Sarana

Tambah Data pada table jadwal shift sarana dengan menambahkan sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a web application interface for managing animal schedules. On the left, a sidebar menu includes options like Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area has a title 'Jadwal Shift' and a sub-section 'Tambah data jadwal shift Sarana'. This sub-section contains fields for 'id\_jadwal\_sarana' (MP-JS2), 'keadaan\_sarana' (baik), and a date field set to '01/07/2022'. A 'Submit' button is present. To the right is a table titled 'Jadwal Shift Sarana' with columns for id\_jadwal\_sarana, id\_sarana, id\_pegawai, tgl\_check\_sarana, keadaan\_sarana, and Aksi (Edit/Delete). The table lists six entries: KK-JS1, KP-JS2, MP-JS1, MP-JS2, PG-JS2, and TM-JS1. The last entry, TM-JS1, has its 'keadaan\_sarana' field set to 'baik'.

Hasil setelah dilakukan penambahan data pada table jadwal shift sarana di website.

This screenshot shows the same web application after a new data row has been added. The table now displays seven entries. The new entry, TM-JS1, has been added with the 'keadaan\_sarana' value set to 'baik'.

id_jadwal_sarana	id_sarana	id_pegawai	tgl_check_sarana	keadaan_sarana	Aksi
KK-JS1	KK	D-1	2022-03-01	baik	Edit Delete
KP-JS2	KP	S-1	2022-03-01	1 Rusak	Edit Delete
MP-JS1	MP	D-2	2022-07-01	baik	Edit Delete
MP-JS2	PG	S-2	2022-07-01	baik	Edit Delete
PG-JS2	PG	S-1	2022-03-01	Baik	Edit Delete
TM-JS1	TM	S-2	2022-03-01	Baik	Edit Delete

Hasil setelah dilakukan penambahan data pada table jadwal shift sarana di database.

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** 127.0.0.1
- Database:** kbinatang
- Table:** jadwal\_shift\_sarana
- Query Results:**
  - Menampilkan baris 0 - 5 (total 6, Pencarian dilakukan dalam 0,0002 detik.)
  - SELECT \* FROM 'jadwal\_shift\_sarana'
- Table Data:**

	id_jadwal_sarana	id_sarana	id_pegawai	tgl_check_sarana	keadaan_sarana
<input type="checkbox"/>	KK-JS1	KK	D-1	2022-03-01	baik
<input type="checkbox"/>	KP-JS2	KP	S-1	2022-03-01	1 Rusak
<input type="checkbox"/>	MP-JS1	MP	D-2	2022-07-01	baik
<input type="checkbox"/>	MP-JS2	PG	S-2	2022-07-01	baik
<input type="checkbox"/>	PG-JS2	PG	S-1	2022-03-01	Baik
<input type="checkbox"/>	TM-JS1	TM	S-2	2022-03-01	Baik
- Operations:**
  - Pilih Semua
  - Dengan pilihan:  Ubah  Salin  Hapus  Eksport
  - Tampilkan semua | Jumlah baris: 25 | Saring baris: Cari di tabel ini | Sort by key: Tidak ada
- Buttons:**
  - Extra options
  - Ubah Salin Hapus Eksport
  - Cetak Salin ke clipboard Eksport Tampilkan bagen Buat tampilan
  - Markahi kueri SQL ini

Update Data pada table jadwal shift sarana dengan mengubah sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a custom web application interface with the following details:

- Left Sidebar:**
  - Hewan
  - Sarana
  - makanan
  - supplier
  - Jadwal check up
  - Jadwal shift hewan
  - Jadwal shift sarana
  - pegawai
  - logout
- Main Content:**
  - Jadwal Shift** (Title)
  - Tambah data jadwal shift** (Button)
  - Update data jadwal shift sarana** (Modal Title)
  - Form fields in the modal:
    - id\_jadwal\_sarana: MP-JS2
    - keadaan\_sarana: Kunci Keamanan Satwa
    - pegawai: Ariyanto
    - tgl\_check\_sarana: 01/07/2022
    - keadaan\_sarana: 2 rusak
  - Update** (Modal Button)
  - Table Data:**

	keadaan_sarana	Aksi
baik	<button>Edit</button> <button>Delete</button>	
1 Rusak	<button>Edit</button> <button>Delete</button>	
baik	<button>Edit</button> <button>Delete</button>	
  - Page Navigation:**
    - Showing 1 to 6 of 6 entries
    - Previous 1 Next

Hasil setelah dilakukan perubahan data pada table jadwal shift sarana di website.

The screenshot shows a web application interface titled "KEBUN BINATANG". On the left, there is a sidebar with navigation links: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, **jadwal shift sarana**, pegawai, and logout. The main content area is titled "Jadwal Shift Sarana" and contains a table with the following data:

id_jadwal_sarana	id_sarana	id_pegawai	tgl_check_sarana	keadaan_sarana	Aksi
KK-JS1	KK	D-1	2022-03-01	baik	<button>Edit</button> <button>Delete</button>
KP-JS2	KP	S-1	2022-03-01	1 Rusak	<button>Edit</button> <button>Delete</button>
MP-JS1	MP	D-2	2022-07-01	baik	<button>Edit</button> <button>Delete</button>
MP-JS2	KK	D-1	2022-07-01	2 rusak	<button>Edit</button> <button>Delete</button>
PG-JS2	PG	S-1	2022-03-01	Baik	<button>Edit</button> <button>Delete</button>
TM-JS1	TM	S-2	2022-03-01	Baik	<button>Edit</button> <button>Delete</button>

At the bottom of the table, it says "Showing 1 to 6 of 6 entries".

Hasil setelah dilakukan perubahan data pada table jadwal shift sarana di database.

The screenshot shows the "phpMyAdmin" interface connected to the "kbinatang" database. The current table is "jadwal\_shift\_sarana". The table data is identical to the one shown in the previous screenshot:

id_jadwal_sarana	id_sarana	id_pegawai	tgl_check_sarana	keadaan_sarana
KK-JS1	KK	D-1	2022-03-01	baik
KP-JS2	KP	S-1	2022-03-01	1 Rusak
MP-JS1	MP	D-2	2022-07-01	baik
MP-JS2	KK	D-1	2022-07-01	2 rusak
PG-JS2	PG	S-1	2022-03-01	Baik
TM-JS1	TM	S-2	2022-03-01	Baik

Delete Data pada table jadwal shift sarana dengan menghapus sebuah data dengan rincian seperti gambar berikut.

The screenshot shows a web application interface for managing schedules. On the left, there is a sidebar with navigation links: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area has a title "Jadwal Shift Sarana". Below it is a table with columns: id\_jadwal\_sarana, id\_sarana, id\_pegawai, tgl\_check\_sarana, keadaan\_sarana, and Aksi. The table contains six rows of data. A modal dialog box titled "Delete data Jadwal Sarana" is overlaid on the page, asking "Apakah Anda yakin ingin menghapus MP-JS2 ini?". It has two buttons: "Delete" (red) and "Cancel" (white). At the bottom of the main content area, there is a message "Showing 1 to 6 of 6 entries" and a navigation bar with "Previous", a page number "1", and "Next".

ID Jadwal Sarana	ID Sarana	ID Pegawai	Tgl Check Sarana	Keadaan Sarana	Aksi
KK-JS1	KK	D-1	2022-03-01	Baik	<button>Edit</button> <button>Delete</button>
KP-JS2	KP	S-1	2022-03-01	1 Rusak	<button>Edit</button> <button>Delete</button>
MP-JS1	MP	D-2	2022-07-01	Baik	<button>Edit</button> <button>Delete</button>
MP-JS2	KK	D-1	2022-07-01	2 rusak	<button>Edit</button> <button>Delete</button>
PG-JS2	PG	S-1	2022-03-01	Baik	<button>Edit</button> <button>Delete</button>
TM-JS1	TM	S-2	2022-03-01	Baik	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan penghapusan data pada table jadwal shift saarana di website.

This screenshot shows the same web application after the data deletion. The sidebar and the main title "Jadwal Shift Sarana" remain the same. The table now only contains five rows of data. The message at the bottom of the table is "Showing 1 to 5 of 5 entries". The navigation bar at the bottom right includes "Previous", a page number "1", and "Next".

ID Jadwal Sarana	ID Sarana	ID Pegawai	Tgl Check Sarana	Keadaan Sarana	Aksi
KK-JS1	KK	D-1	2022-03-01	Baik	<button>Edit</button> <button>Delete</button>
KP-JS2	KP	S-1	2022-03-01	1 Rusak	<button>Edit</button> <button>Delete</button>
MP-JS1	MP	D-2	2022-07-01	Baik	<button>Edit</button> <button>Delete</button>
PG-JS2	PG	S-1	2022-03-01	Baik	<button>Edit</button> <button>Delete</button>
TM-JS1	TM	S-2	2022-03-01	Baik	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan penghapusan data pada table jadwal shift sarana di database.

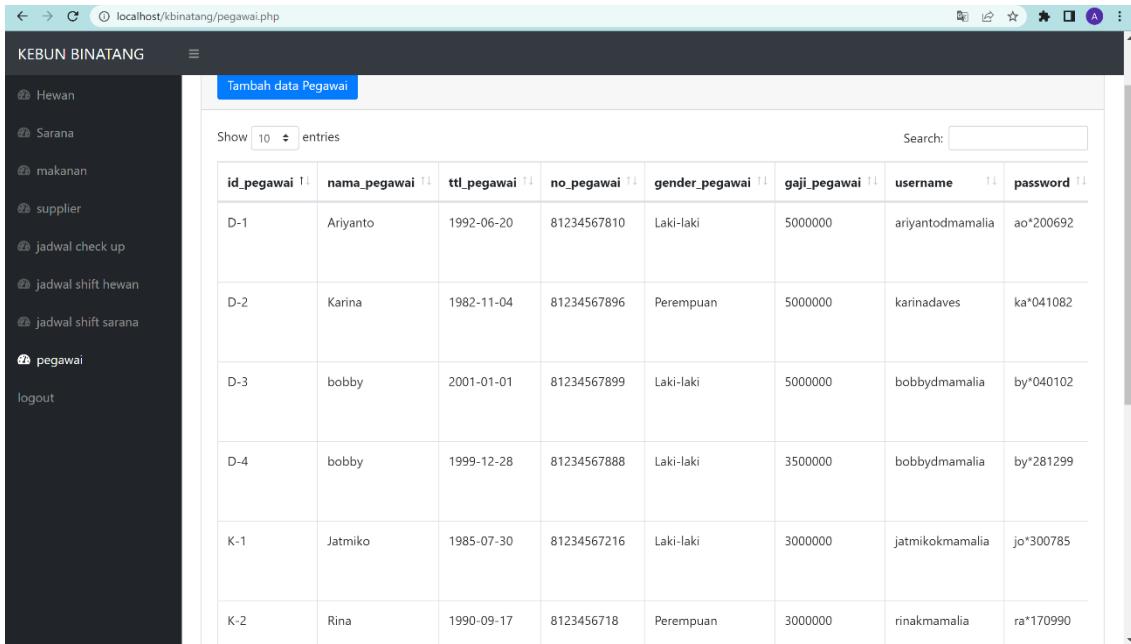
	<a href="#">Ubah</a>	<a href="#">Salin</a>	<a href="#">Hapus</a>	KK-JS1	KK	D-1	2022-03-01	baik
				KP-JS2	KP	S-1	2022-03-01	Rusak
				MP-JS1	MP	D-2	2022-07-01	baik
				PG-JS2	PG	S-1	2022-03-01	Baik
				TM-JS1	TM	S-2	2022-03-01	Baik

## Operasi Pegawai

Tambah Data pada table pegawai dengan menambahkan sebuah data dengan rincian seperti gambar berikut.

id_pegawai	nama_pegawai	tanggal_lahir	nomor_ktp	gender	gaji_pegawai	username	password
D-1	Ariyanto	28/12/1999	81234567888	Laki-laki	5000000	ariyantodmamalia	ao*200692
D-2	Karina		3500000		5000000	karinadaves	ka*041082
D-3	bobby		bobbydmamalia		5000000	bobbydmamalia	by*040102
K-1	Jatmiko		by*281299		3000000	jatmikokmamalia	jo*300785
K-2	Rina	1990-09-17	8123456718	Perempuan	3000000	rinakmamalia	ra*170990

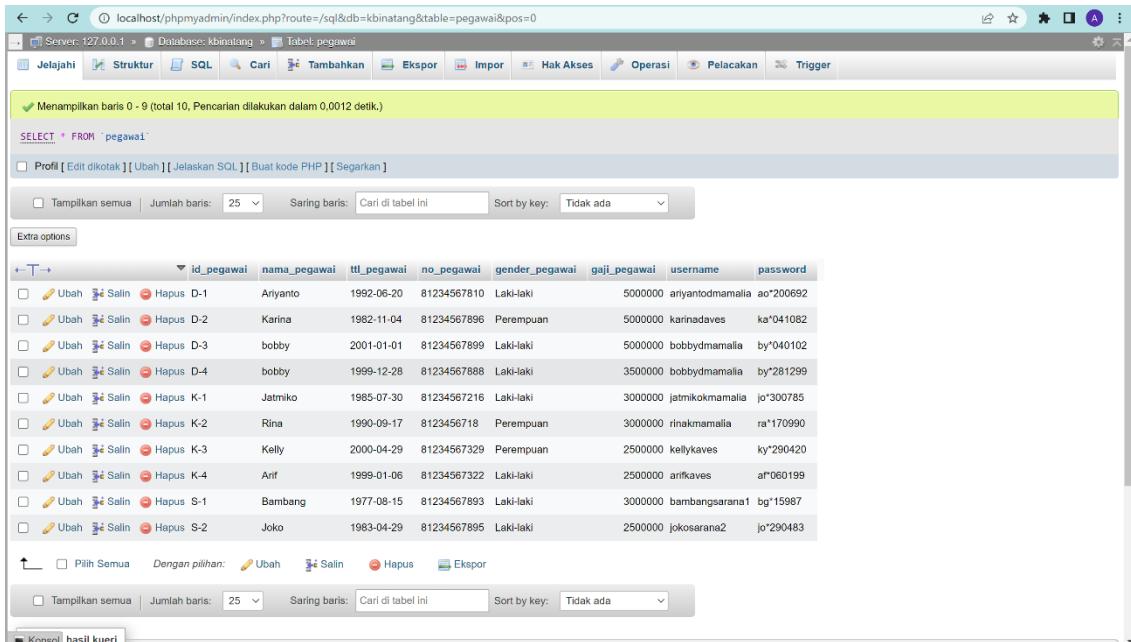
Hasil setelah dilakukan penambahan data pada table pegawai di website.



The screenshot shows a web-based application interface titled "KEBUN BINATANG". On the left, there is a sidebar with navigation links: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled "Tambah data Pegawai" and displays a table of employee data. The table has columns: id\_pegawai, nama\_pegawai, ttl\_pegawai, no\_pegawai, gender\_pegawai, gaji\_pegawai, username, and password. The data in the table is as follows:

id_pegawai	nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password
D-1	Ariyanto	1992-06-20	81234567810	Laki-laki	5000000	ariyantodmamalia	ao*200692
D-2	Karina	1982-11-04	81234567896	Perempuan	5000000	karinadaves	ka*041082
D-3	bobby	2001-01-01	81234567899	Laki-laki	5000000	bobbydmamalia	by*040102
D-4	bobby	1999-12-28	81234567888	Laki-laki	3500000	bobbydmamalia	by*281299
K-1	Jatmiko	1985-07-30	81234567216	Laki-laki	3000000	jatmikokmamalia	jo*300785
K-2	Rina	1990-09-17	8123456718	Perempuan	3000000	rinakmamalia	ra*170990

Hasil setelah dilakukan penambahan data pada table pegawai di database.



The screenshot shows the MySQL phpMyAdmin interface. It is connected to the "kbinatang" database and is viewing the "pegawai" table. The table structure is identical to the one in the web application. The data in the table is as follows:

id_pegawai	nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password
D-1	Ariyanto	1992-06-20	81234567810	Laki-laki	5000000	ariyantodmamalia	ao*200692
D-2	Karina	1982-11-04	81234567896	Perempuan	5000000	karinadaves	ka*041082
D-3	bobby	2001-01-01	81234567899	Laki-laki	5000000	bobbydmamalia	by*040102
D-4	bobby	1999-12-28	81234567888	Laki-laki	3500000	bobbydmamalia	by*281299
K-1	Jatmiko	1985-07-30	81234567216	Laki-laki	3000000	jatmikokmamalia	jo*300785
K-2	Rina	1990-09-17	8123456718	Perempuan	3000000	rinakmamalia	ra*170990
K-3	Kelly	2000-04-29	81234567329	Perempuan	2500000	kellykaves	ky*290420
K-4	Arif	1999-01-06	81234567322	Laki-laki	2500000	arifkaves	af*060199
S-1	Bambang	1977-08-15	81234567893	Laki-laki	3000000	bambangsarana1	bg*15987
S-2	Joko	1983-04-29	81234567895	Laki-laki	2500000	jkosarana2	jo*290483

Update Data pada table pegawai dengan mengubah sebuah data dengan rincian seperti gambar berikut.

id_pegawai	nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password	Aksi
D-1	Ariyanto	1992-06-20	81234567810	Laki-laki	5000000	ariyantodmamalia	ao*200692	<button>Edit</button> <button>Delete</button>
D-2	Karina	1982-11-04	81234567896	Perempuan	5000000	karinadaves	ka*041082	<button>Edit</button> <button>Delete</button>
D-3	bobby	2001-01-01	81234567899	Laki-laki	5000000	bobbydmamalia	by*040102	<button>Edit</button> <button>Delete</button>
K-1	Jatmiko	1985-07-30	81234567216	Laki-laki	3000000	jatmikokmamalia	jo*300785	<button>Edit</button> <button>Delete</button>
K-2	Rina	1990-09-17	8123456718	Perempuan	3000000	rinakmamalia	ra*170990	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan perubahan data pada table pegawai di website.

id_pegawai	nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password	Aksi
D-1	Ariyanto	1992-06-20	81234567810	Laki-laki	5000000	ariyantodmamalia	ao*200692	<button>Edit</button> <button>Delete</button>
D-2	Karina	1982-11-04	81234567896	Perempuan	5000000	karinadaves	ka*041082	<button>Edit</button> <button>Delete</button>
D-3	bobby	2001-01-01	81234567899	Laki-laki	5000000	bobbydmamalia	by*040102	<button>Edit</button> <button>Delete</button>
K-1	Jatmiko	1985-07-30	81234567216	Laki-laki	3000000	jatmikokmamalia	jo*300785	<button>Edit</button> <button>Delete</button>
K-2	Rina	1990-09-17	8123456718	Perempuan	3000000	rinakmamalia	ra*170990	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan perubahan data pada table pegawai di database.

The screenshot shows the phpMyAdmin interface for the 'pegawai' table in the 'kbinatang' database. The table has columns: id\_pegawai, nama\_pegawai, ttl\_pegawai, no\_pegawai, gender\_pegawai, gaji\_pegawai, username, and password. The data includes rows for Ariyanto, Karina, bobby, Jatmiko, Rina, Kelly, Arif, Bambang, and Joko. A modal window at the bottom left shows a confirmation message: "Delete data Pegawai" with the question "Apakah Anda yakin ingin menghapus bobby ini?".

	id_pegawai	nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password			
<input type="checkbox"/>	Ubah	Salin	Hapus	D-1	Ariyanto	1992-06-20	81234567810	Laki-laki	5000000	ariyantodmamalia	ao*200692
<input type="checkbox"/>	Ubah	Salin	Hapus	D-2	Karina	1982-11-04	81234567896	Perempuan	5000000	karinadaves	ka*041082
<input type="checkbox"/>	Ubah	Salin	Hapus	D-3	bobby	2001-01-01	81234567899	Laki-laki	5000000	bobbydmamalia	by*040102
<input type="checkbox"/>	Ubah	Salin	Hapus	D-4	bobby	1999-12-28	81234567888	Laki-laki	4000000	bobbydmamalia	by*281299
<input type="checkbox"/>	Ubah	Salin	Hapus	K-1	Jatmiko	1985-07-30	81234567216	Laki-laki	3000000	jatmikokmamalia	jo*300785
<input type="checkbox"/>	Ubah	Salin	Hapus	K-2	Rina	1990-09-17	8123456718	Perempuan	3000000	rinkmamalia	ra*170990
<input type="checkbox"/>	Ubah	Salin	Hapus	K-3	Kelly	2000-04-29	81234567329	Perempuan	2500000	kellykaves	ky*290420
<input type="checkbox"/>	Ubah	Salin	Hapus	K-4	Arif	1999-01-06	81234567322	Laki-laki	2500000	arifikaves	at*060199
<input type="checkbox"/>	Ubah	Salin	Hapus	S-1	Bambang	1977-08-15	81234567893	Laki-laki	3000000	bambangsarana1	bg*15987
<input type="checkbox"/>	Ubah	Salin	Hapus	S-2	Joko	1963-04-29	81234567895	Laki-laki	2500000	jokosarana2	jo*290483

Delete Data pada table pegawai dengan menghapus sebuah data dengan rincian seperti gambar berikut.

The screenshot shows the KEBUN BINATANG application interface. On the left is a sidebar with navigation links: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main area displays a table ofpegawai data. A modal dialog box titled "Delete data Pegawai" is centered over the table, asking "Apakah Anda yakin ingin menghapus bobby ini?".

entries	nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password	Aksi
	Ariyanto					ariyantodmamalia	ao*200692	<button>Edit</button> <button>Delete</button>
	Karina	1982-11-04	81234567896	Perempuan	5000000	karinadaves	ka*041082	<button>Edit</button> <button>Delete</button>
	bobby	2001-01-01	81234567899	Laki-laki	5000000	bobbydmamalia	by*040102	<button>Edit</button> <button>Delete</button>
	bobby	1999-12-28	81234567888	Laki-laki	4000000	bobbydmamalia	by*281299	<button>Edit</button> <button>Delete</button>
	Jatmiko	1985-07-30	81234567216	Laki-laki	3000000	jatmikokmamalia	jo*300785	<button>Edit</button> <button>Delete</button>
	Rina	1990-09-17	8123456718	Perempuan	3000000	rinkmamalia	ra*170990	<button>Edit</button> <button>Delete</button>

Hasil setelah dilakukan penghapusan data pada table pegawai di website.

id_pegawai	nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password
D-1	Ariyanto	1992-06-20	81234567810	Laki-laki	5000000	ariyantodmamalia	ao*200692
D-2	Karina	1982-11-04	81234567896	Perempuan	5000000	karinadaves	ka*041082
D-3	bobby	2001-01-01	81234567899	Laki-laki	5000000	bobbydmamalia	by*040102
K-1	Jatmiko	1985-07-30	81234567216	Laki-laki	3000000	jatmikokmamalia	jo*300785
K-2	Rina	1990-09-17	8123456718	Perempuan	3000000	rinakmamalia	ra*170990

Hasil setelah dilakukan penghapusan data pada table pegawai di database.

id_pegawai	nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password
D-1	Ariyanto	1992-06-20	81234567810	Laki-laki	5000000	ariyantodmamalia	ao*200692
D-2	Karina	1982-11-04	81234567896	Perempuan	5000000	karinadaves	ka*041082
D-3	bobby	2001-01-01	81234567899	Laki-laki	5000000	bobbydmamalia	by*040102
K-1	Jatmiko	1985-07-30	81234567216	Laki-laki	3000000	jatmikokmamalia	jo*300785
K-2	Rina	1990-09-17	8123456718	Perempuan	3000000	rinakmamalia	ra*170990
K-3	Kelly	2000-04-29	81234567329	Perempuan	2500000	kellykaves	ky*290420
K-4	Arif	1999-01-06	81234567322	Laki-laki	2500000	arifkaves	af*060199
S-1	Bambang	1977-08-15	81234567893	Laki-laki	3000000	bambangsarana1	bg*15987
S-2	Joko	1983-04-29	81234567895	Laki-laki	2500000	jokosarana2	jo*290483

## Data Table Saling Berhubungan

### Data pada Jadwal Check Up

The screenshot shows a web application interface titled "Jadwal Check Up". On the left, there is a sidebar menu with the following items: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled "Jadwal Check Up" and contains a table with the following data:

ID Jadwal Check Up	ID Hewan	ID Pegawai	Tgl Check Up	Aksi
A-1CU2	A-2	D-2	2022-03-10	<button>Edit</button> <button>Delete</button>
A-2CU3	A-1	D-1	2022-03-10	<button>Edit</button> <button>Delete</button>
A-2CU4	A-1	D-1	2022-07-08	<button>Edit</button> <button>Delete</button>
M-1CU1	M-2	D-1	2022-02-14	<button>Edit</button> <button>Delete</button>

Showing 1 to 4 of 4 entries

### Data pada Pegawai

The screenshot shows a web application interface titled "Pegawai". On the left, there is a sidebar menu with the following items: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled "Pegawai" and contains a table with the following data:

ID Pegawai	Nama Pegawai	TTL Pegawai	No. Pegawai	Gender Pegawai	Gaji Pegawai	Username	Password
D-1	Ariyanto	1992-06-20	81234567810	Laki-laki	500000	ariyantodmamalia	ad*200692
D-2	Karina	1982-11-04	81234567896	Perempuan	500000	karinadaves	ka*041082
D-3	bobby	2001-01-01	81234567899	Laki-laki	500000	bobbydmamalia	by*040102
K-1	Jatmiko	1985-07-30	81234567216	Laki-laki	300000	jatmikokmamalia	jo*300785
K-2	Rina	1990-09-17	8123456718	Perempuan	300000	rinakmamalia	ra*170990

localhost/kbinatang/pegawai.php

KEBUN BINATANG

Pegawai

Tambah data Pegawai

Delete data Pegawai

entries

Search:

	nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password	Aksi
1.	Ariyanto	1992-06-20	81234567810	Laki-laki	500000	ariyantodmamalia	ao*200692	<button>Edit</button> <button>Delete</button>
2.	Karina	1982-11-04	81234567896	Perempuan	500000	karinadaves	ka*041082	<button>Edit</button> <button>Delete</button>
3.	bobby	2001-01-01	81234567899	Laki-laki	500000	bobbydmamalia	by*040102	<button>Edit</button> <button>Delete</button>
4.	Jatmiko	1985-07-30	81234567216	Laki-laki	300000	jatmikokmamalia	jo*300785	<button>Edit</button> <button>Delete</button>
5.	Rina	1990-09-17	8123456718	Perempuan	300000	rinakmamalia	ra*170990	<button>Edit</button> <button>Delete</button>

Apakah Anda yakin ingin menghapus Ariyanto ini?

Delete

Logout

pegawai

jadwal shift sarana

jadwal shift hewan

jadwal check up

supplier

makanan

Sarana

Hewan

Tambah data Pegawai

Delete data Pegawai

entries

Search:

	nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password	Aksi
1.	Ariyanto	1992-06-20	81234567810	Laki-laki	500000	ariyantodmamalia	ao*200692	<button>Edit</button> <button>Delete</button>
2.	Karina	1982-11-04	81234567896	Perempuan	500000	karinadaves	ka*041082	<button>Edit</button> <button>Delete</button>
3.	bobby	2001-01-01	81234567899	Laki-laki	500000	bobbydmamalia	by*040102	<button>Edit</button> <button>Delete</button>
4.	Jatmiko	1985-07-30	81234567216	Laki-laki	300000	jatmikokmamalia	jo*300785	<button>Edit</button> <button>Delete</button>
5.	Rina	1990-09-17	8123456718	Perempuan	300000	rinakmamalia	ra*170990	<button>Edit</button> <button>Delete</button>

localhost/kbinatang/pegawai.php

localhost menyatakan

Data terhubung dengan data lain

Oke

## Search

Gambar berikut ini merupakan salah satu fitur yang terdapat pada website yaitu fitur search yang dapat digunakan untuk memudahkan dalam pencarian data tertentu.

The screenshot shows a web-based application interface titled "KEBUN BINATANG". On the left, there is a sidebar with navigation links: Hewan, Sarana, makanan, supplier, jadwal check up, jadwal shift hewan, jadwal shift sarana, pegawai, and logout. The main content area is titled "Pegawai" and contains a table of employee data. A search bar at the top right of the table area has the text "ar" entered. The table has columns: id\_pegawai, nama\_pegawai, ttl\_pegawai, no\_pegawai, gender\_pegawai, gaji\_pegawai, username, and password. The data in the table is as follows:

id_pegawai	nama_pegawai	ttl_pegawai	no_pegawai	gender_pegawai	gaji_pegawai	username	password
D-1	Ariyanto	1992-06-20	81234567810	Laki-laki	5000000	ariyantodmamalia	ao*200692
D-2	Karina	1982-11-04	81234567896	Perempuan	5000000	karinadaves	ka*041082
K-4	Arif	1999-01-06	81234567322	Laki-laki	2500000	arifikaves	af*060199

Below the table, a message says "Showing 1 to 3 of 3 entries (filtered from 9 total entries)".

## Link Lampiran:

<https://drive.google.com/drive/folders/1HDxzImuYBI7GWDbz2TDPTG7dmb4lpnW6?usp=sharing>